

HP 3000 Computer Systems

**SERIES 64/68 A/B SYSTEM BLOCK
DIAGRAMS AND ASSEMBLY
DRAWINGS MANUAL
For HP Repair Use Only**



19447 PRUNERIDGE AVENUE, CUPERTINO, CA 95014

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LIST OF EFFECTIVE PAGES

The List of Effective Pages gives the date of the current edition, and lists the dates of all changed pages. Unchanged pages are listed as "ORIGINAL". Within the manual, any page changed since the last edition is indicated by printing the date the changes were made on the bottom of the page. Changes are marked with a vertical bar in the margin. If an update is incorporated when an edition is reprinted, these bars and dates remain. No information is incorporated into a reprinting unless it appears as a prior update.

Third Edition December 1984

Effective Pages	Date
ALL	DEC 1984

PRINTING HISTORY

New editions are complete revisions of the manual. Update packages, which are issued between editions, contain additional and replacement pages to be merged into the manual by the customer. The date on the title page and back cover of the manual changes only when a new edition is published. When an edition is reprinted, all the prior updates to the edition are incorporated. No information is incorporated into a reprinting unless it appears as a prior update.

First Edition	AUG 1982
Second Edition	FEB 1983
Third Edition	DEC 1984

PREFACE

This document contains block diagrams and assembly drawings for the HP 3000 Series 64/68 A/B Computer Systems.

Diagrams and drawings that apply only to the Series 64/68 A are labeled "A" on the first page of each section in the column labeled "SYSTEM". Those that apply only to the 64/68 B are labeled "B" in the "SYSTEM" column. All other diagrams and drawings are labeled "A/B" and apply to both systems.

The computer block diagrams appear in the first tabular section, followed by the assembly drawings in the second section. Each section begins with its own table of contents.

SYSTEM BLOCK DIAGRAMS

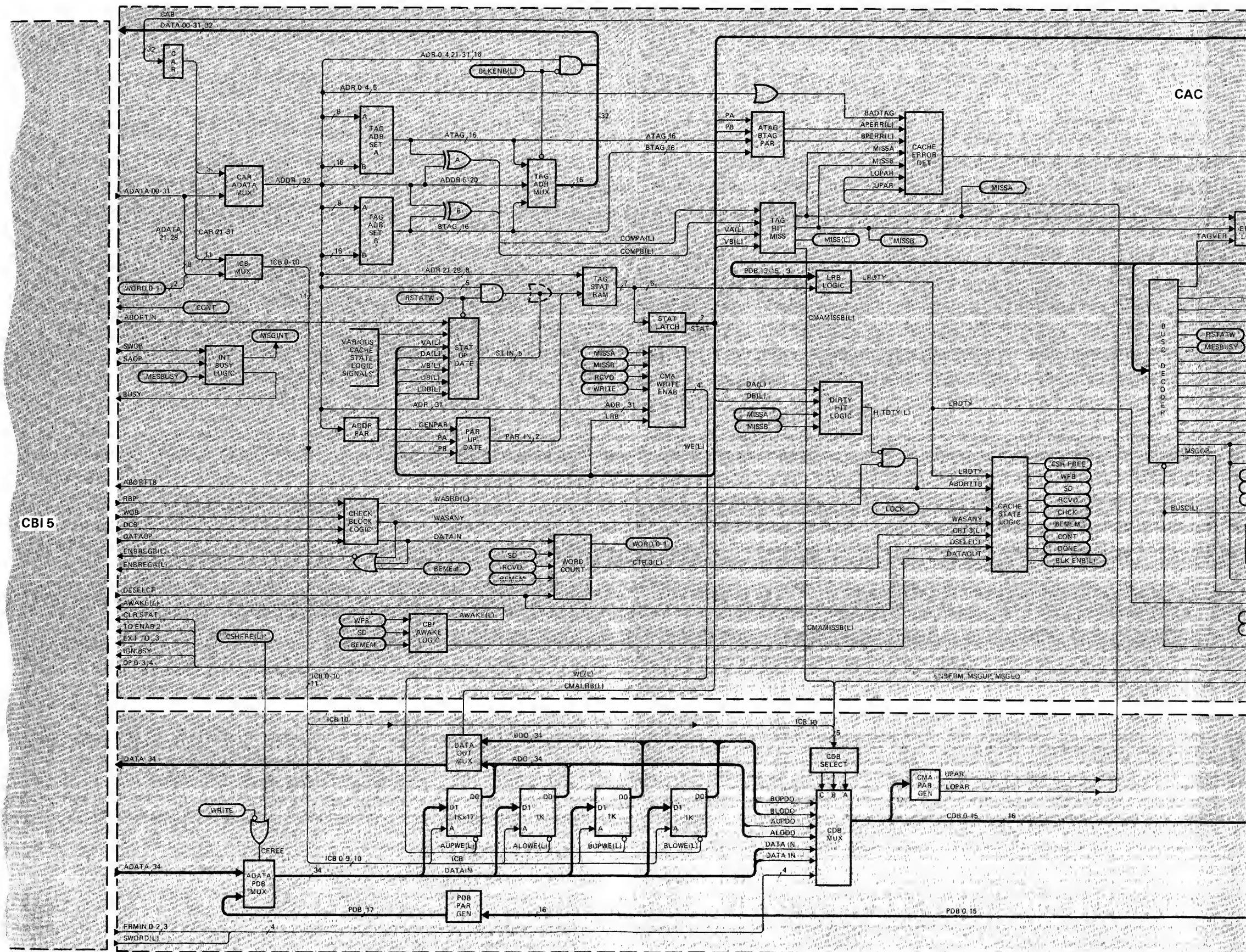
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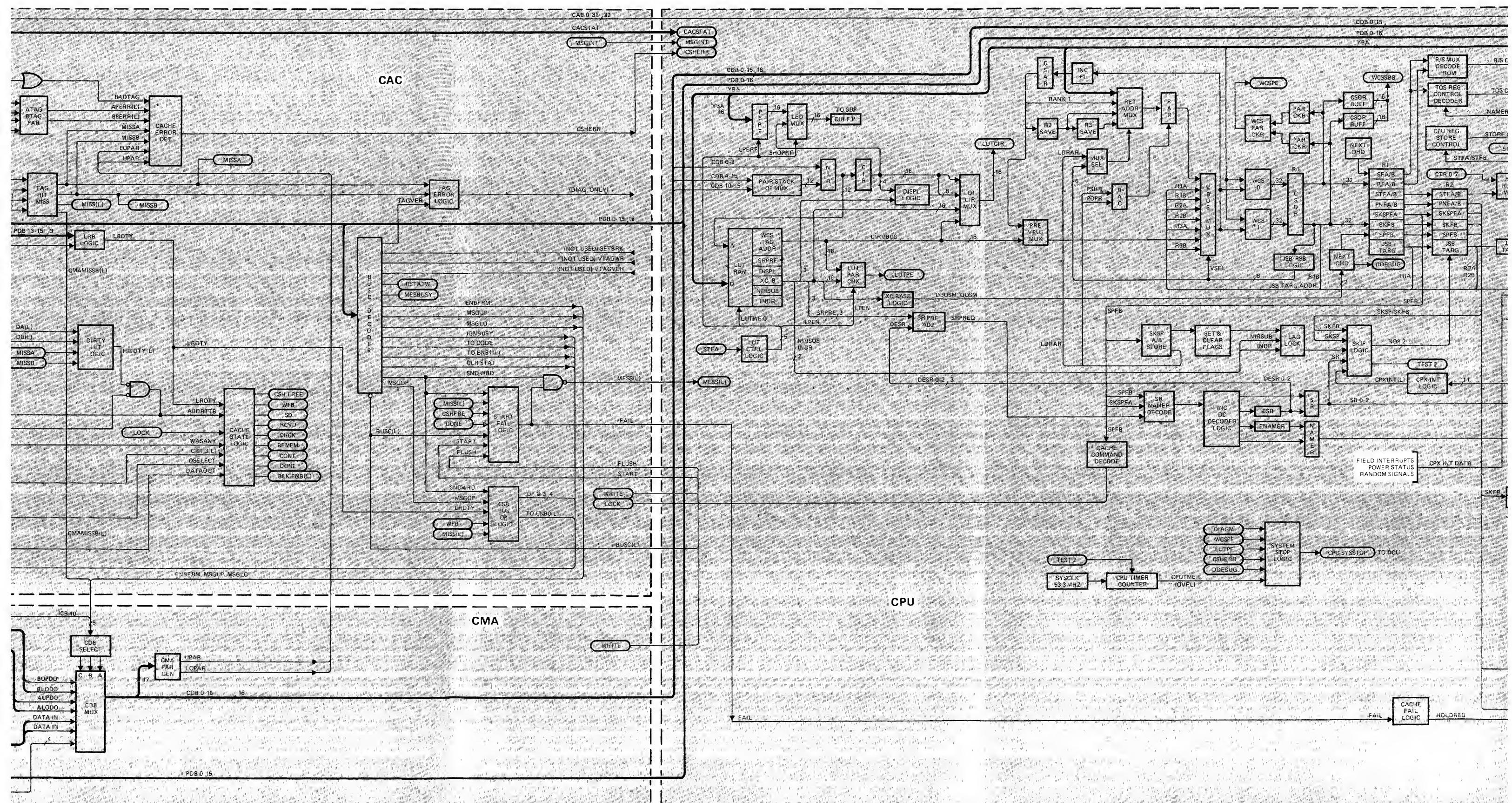
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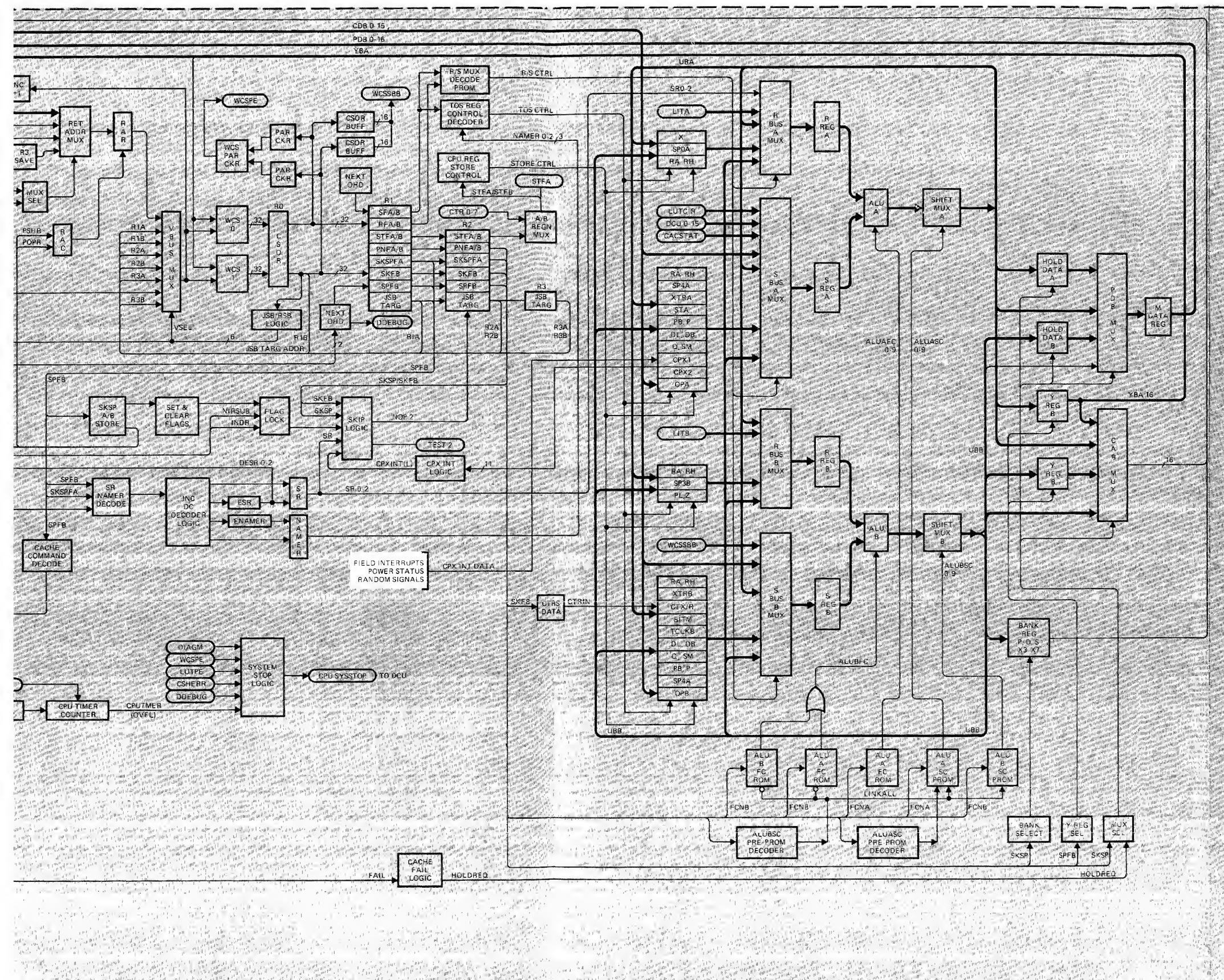
This section provides system block diagrams for the HP 3000 Series 64/68 A/B computer system. The diagrams appear in order as listed below.

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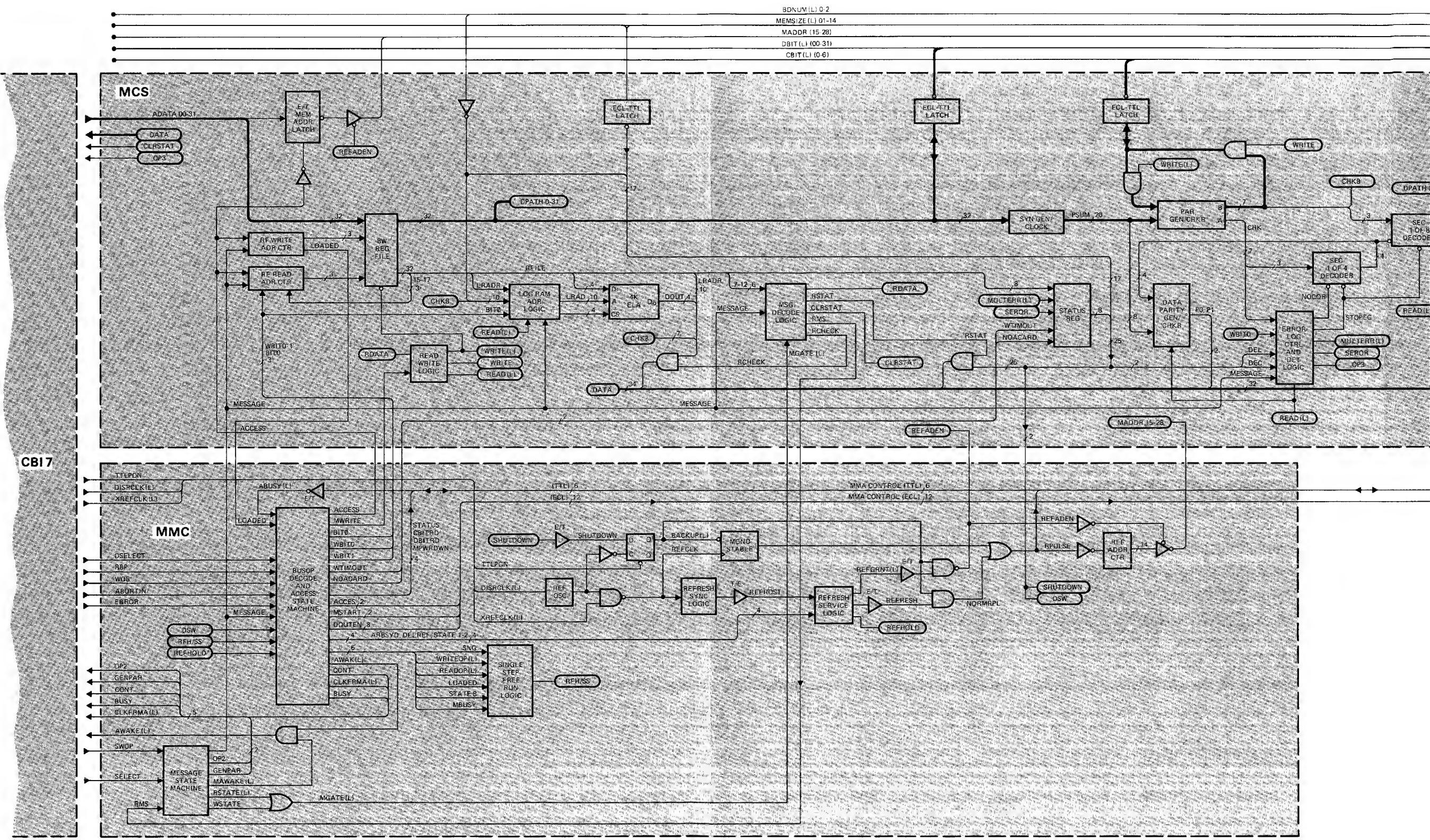
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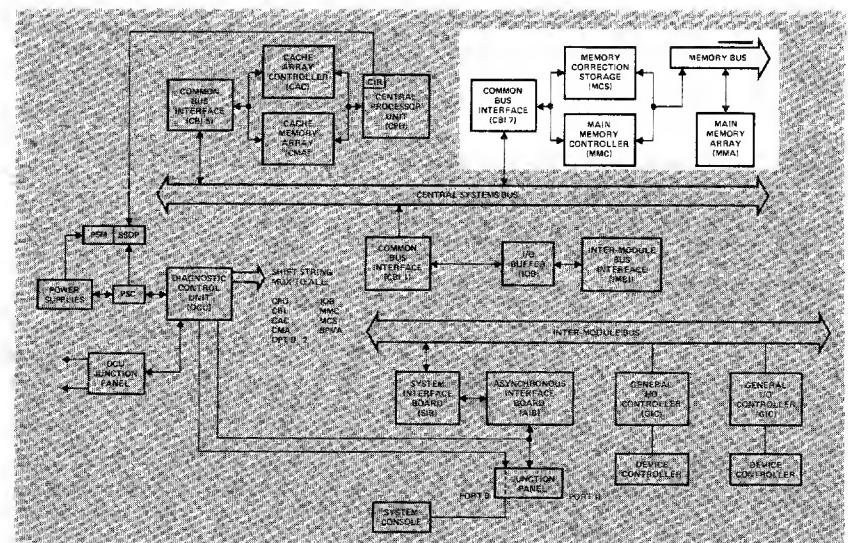
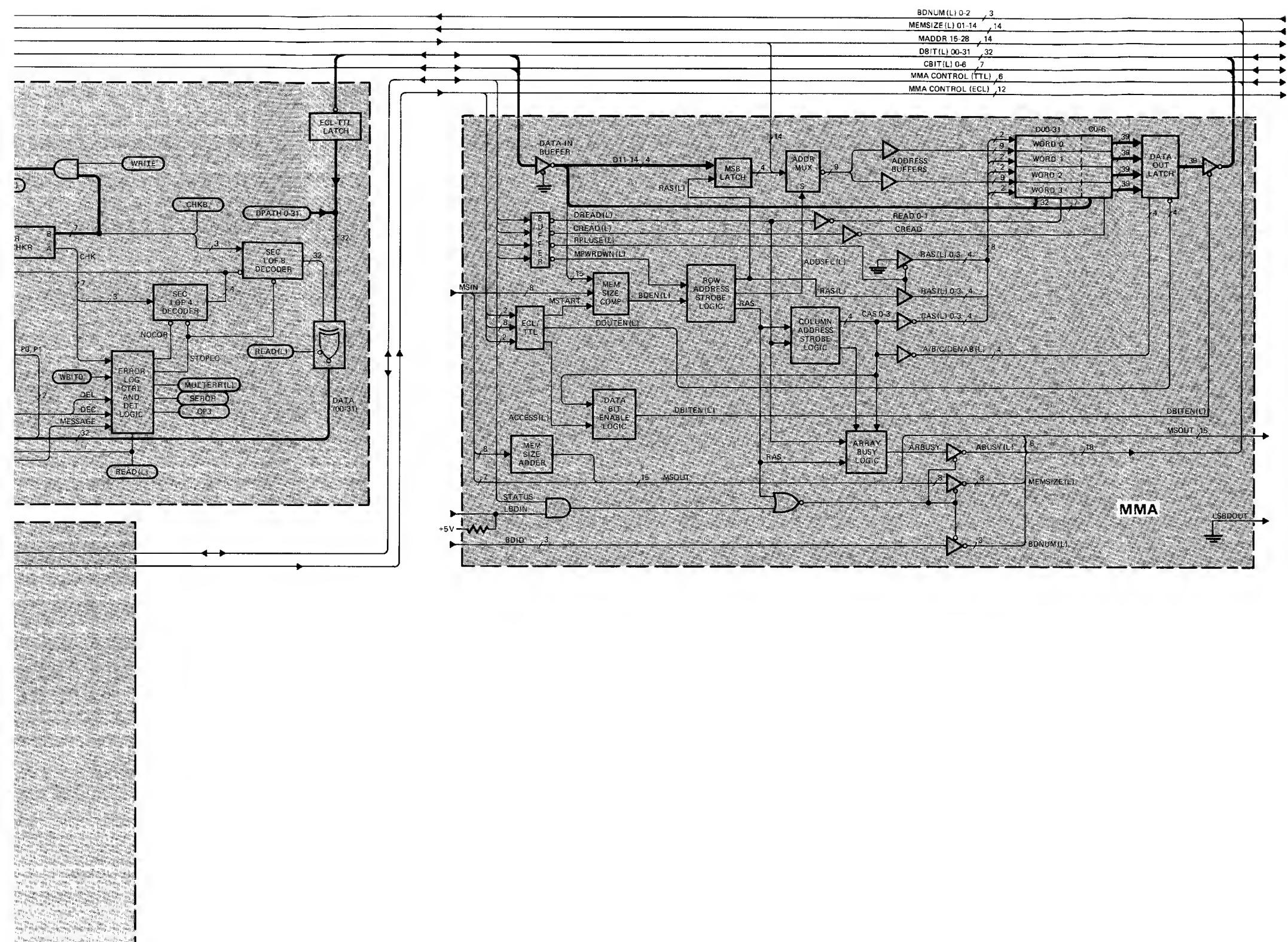




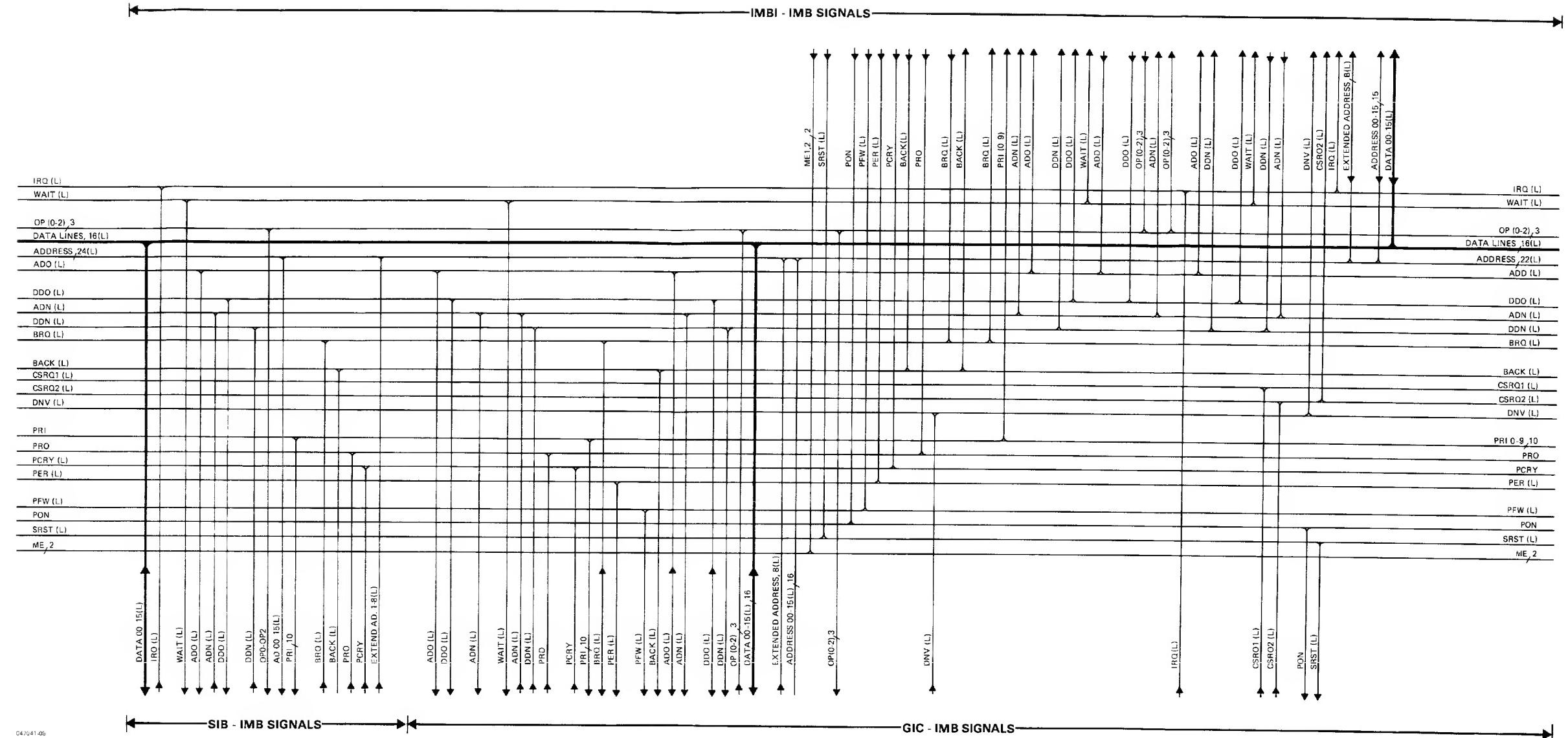


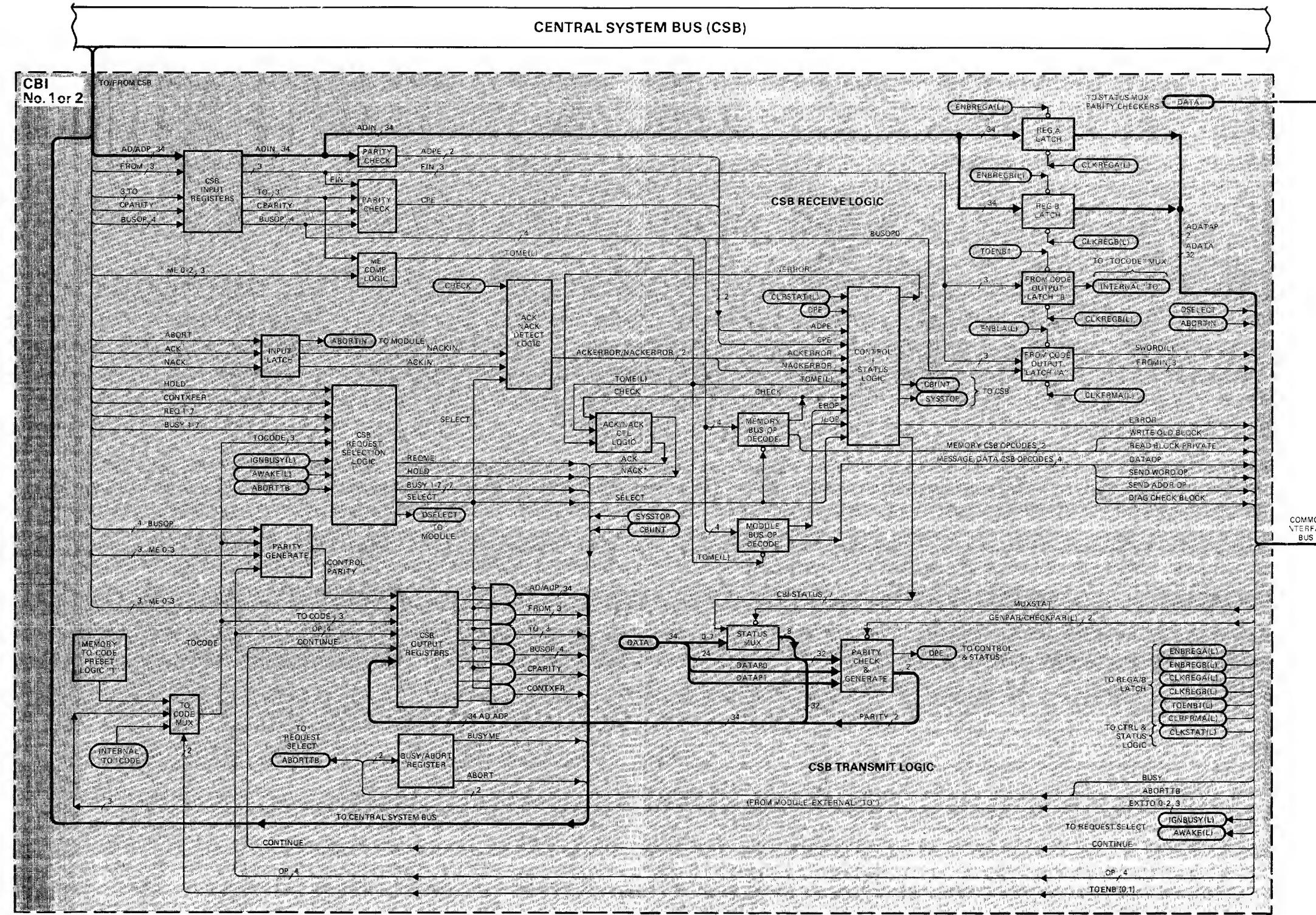
CPU and Cache Memory Module

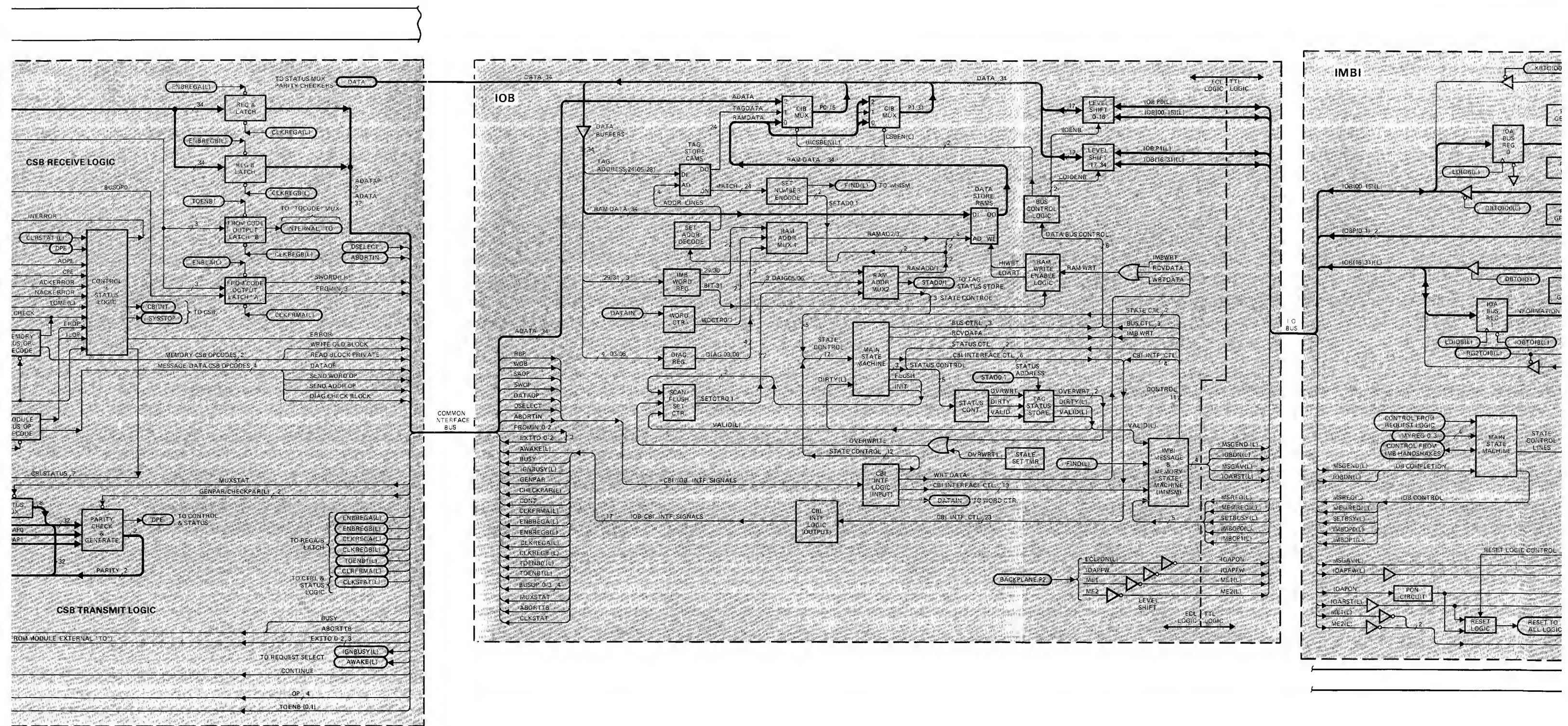


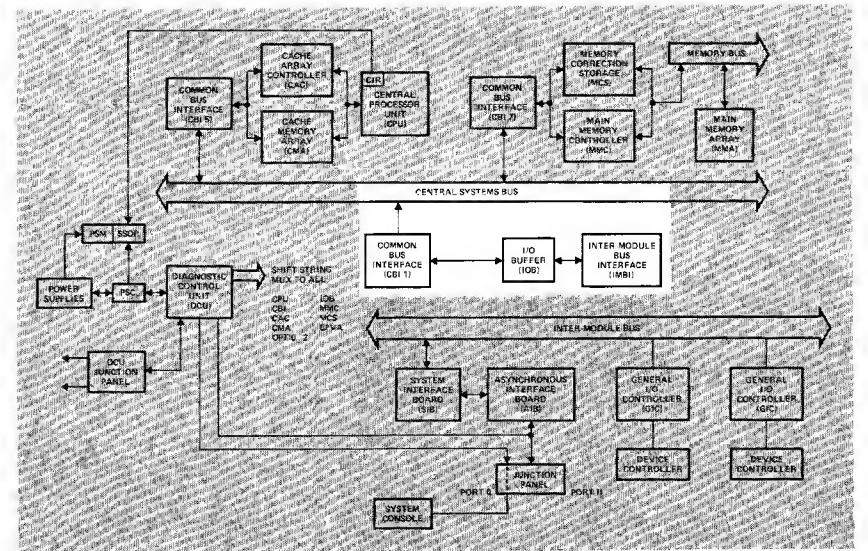
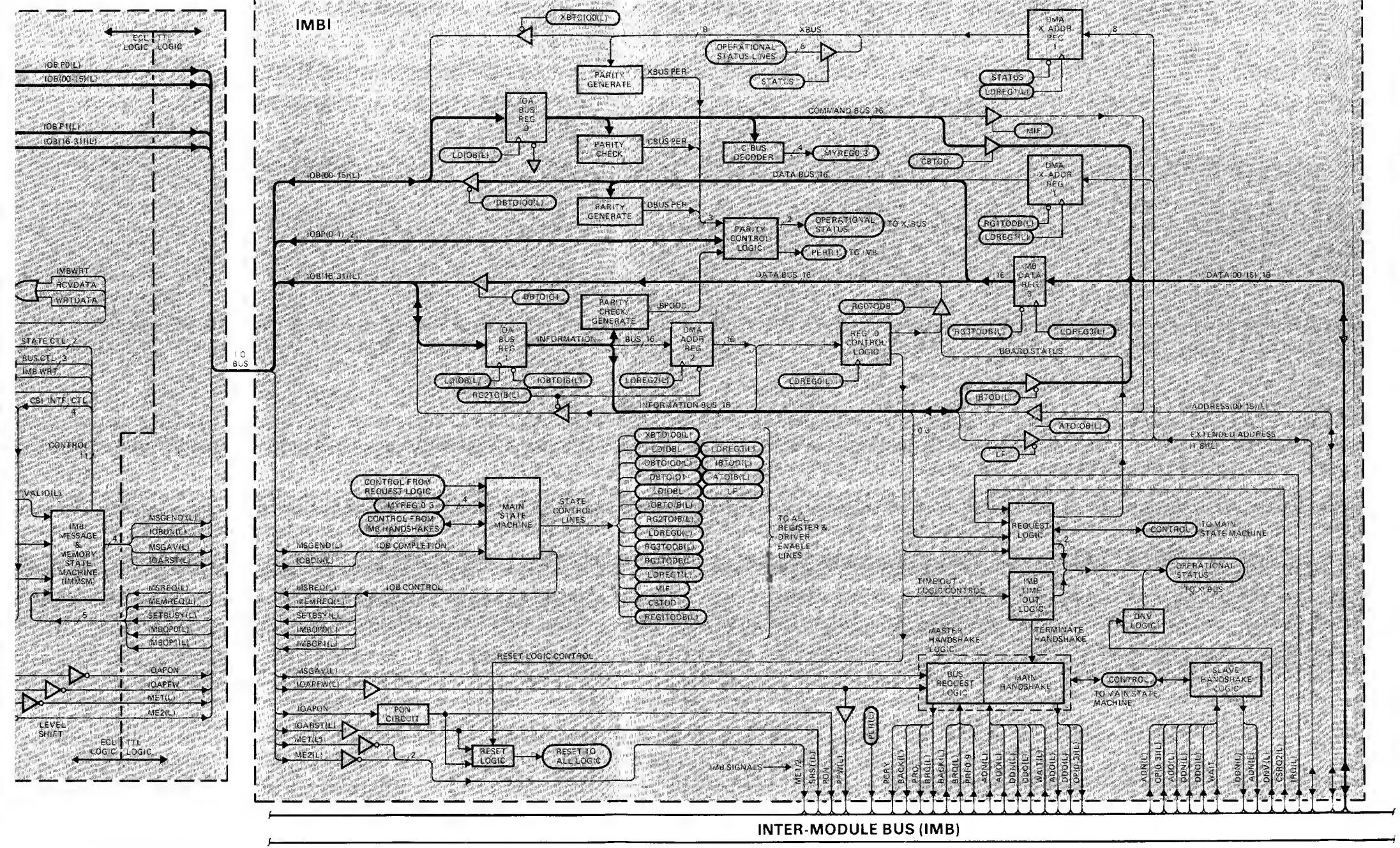


Main Memory Module

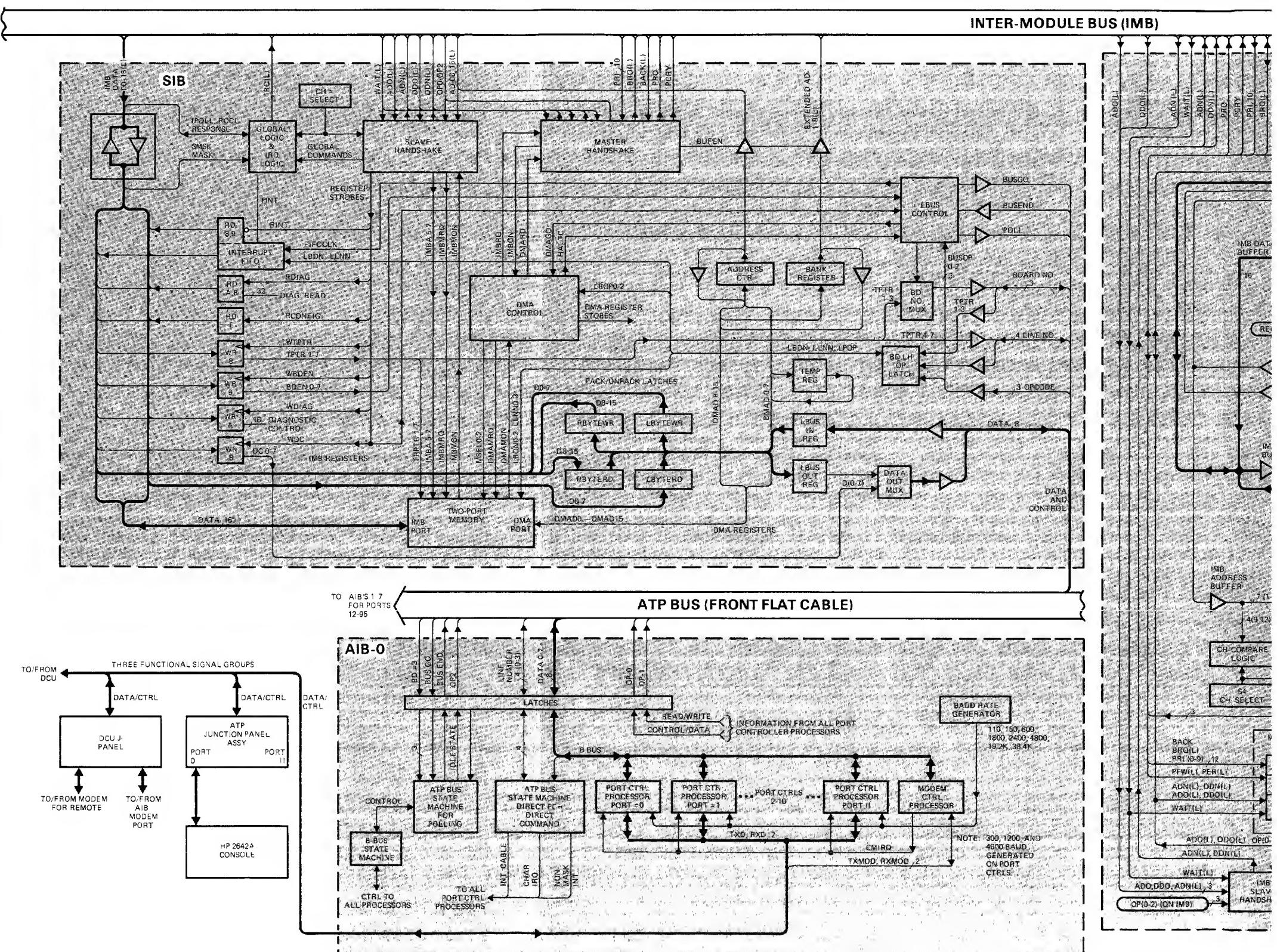


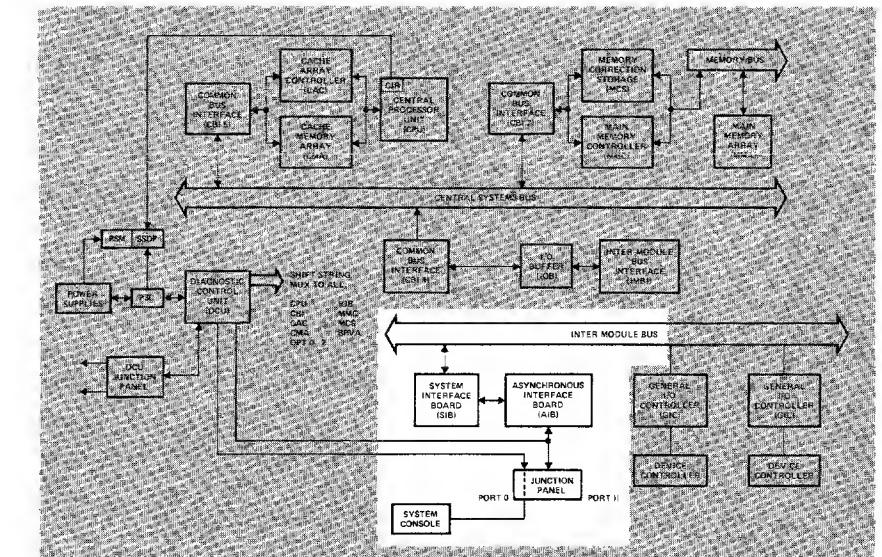
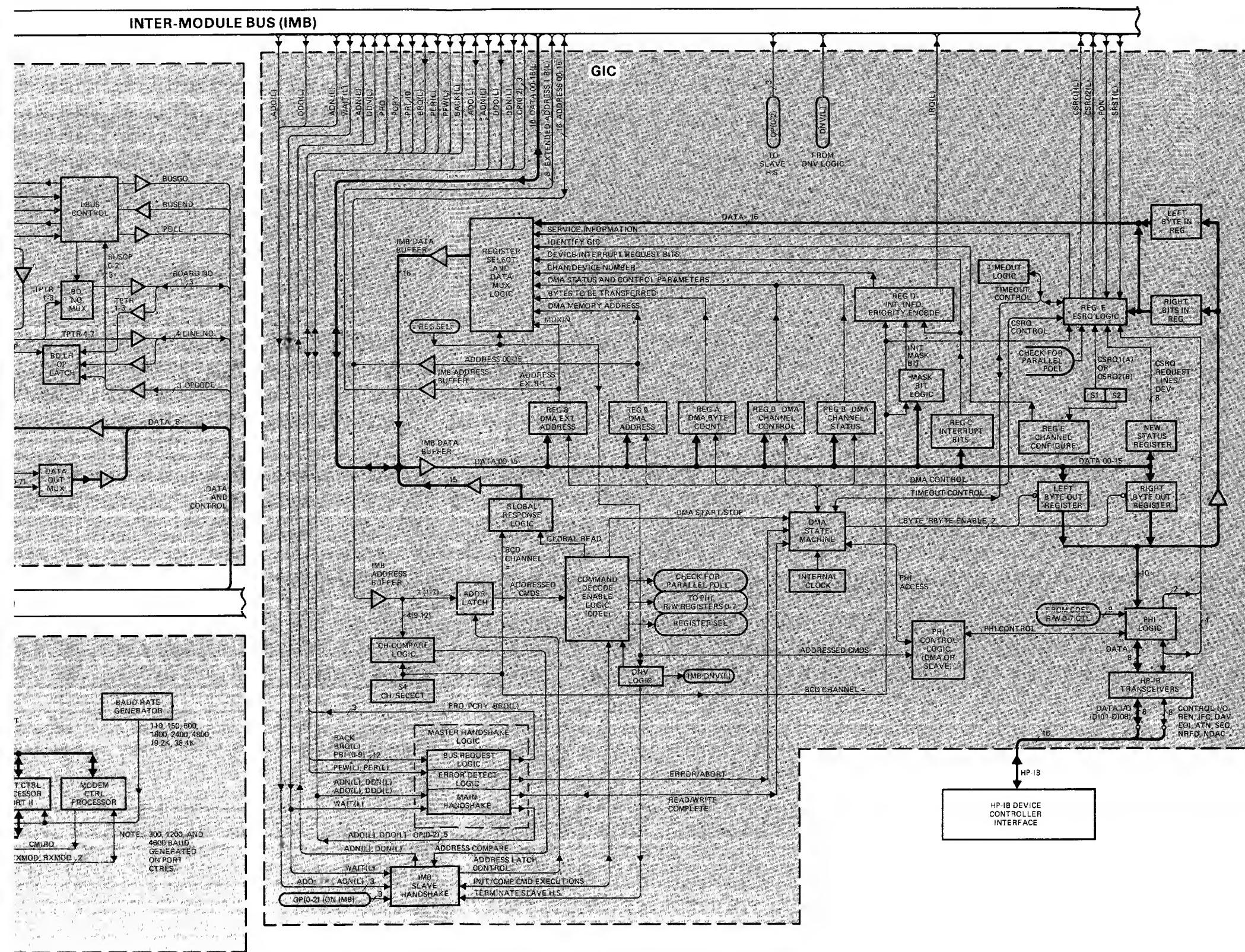




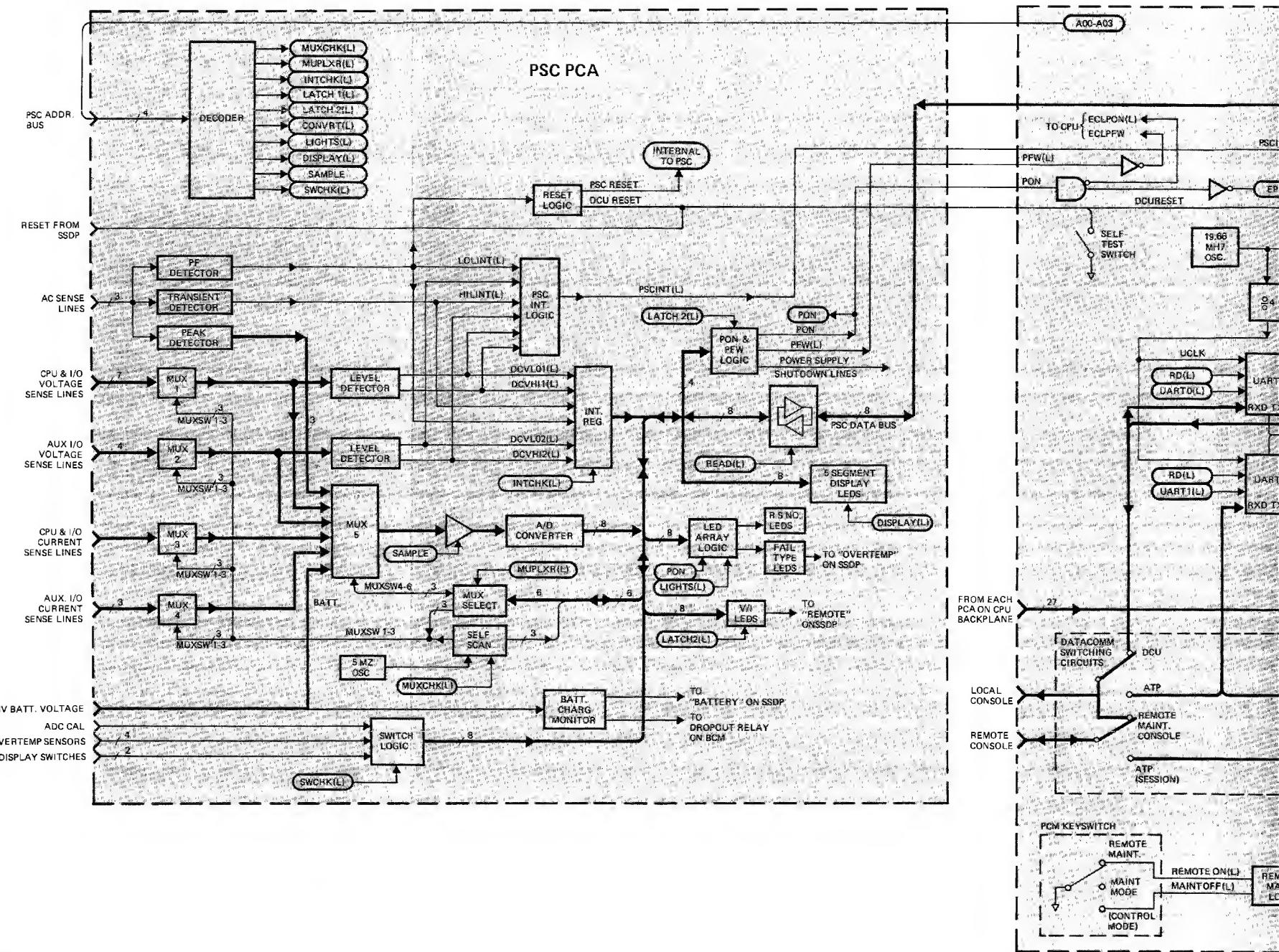


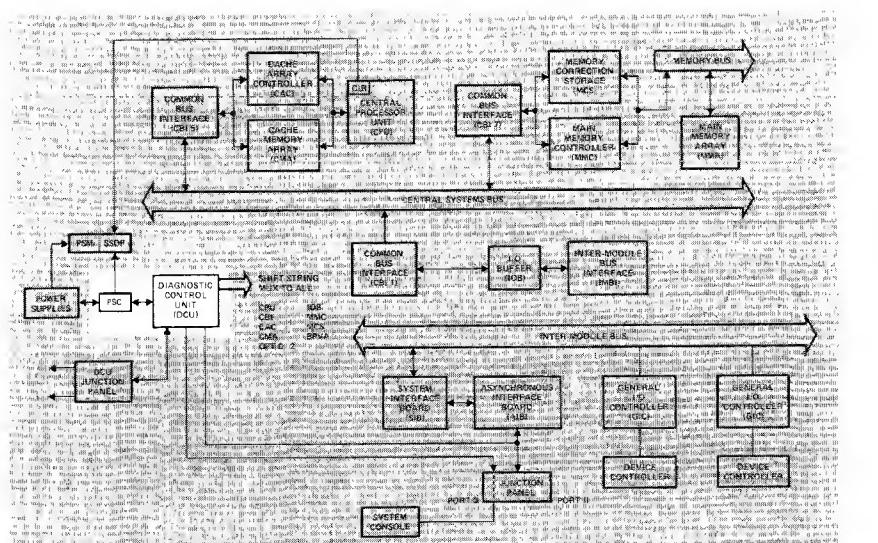
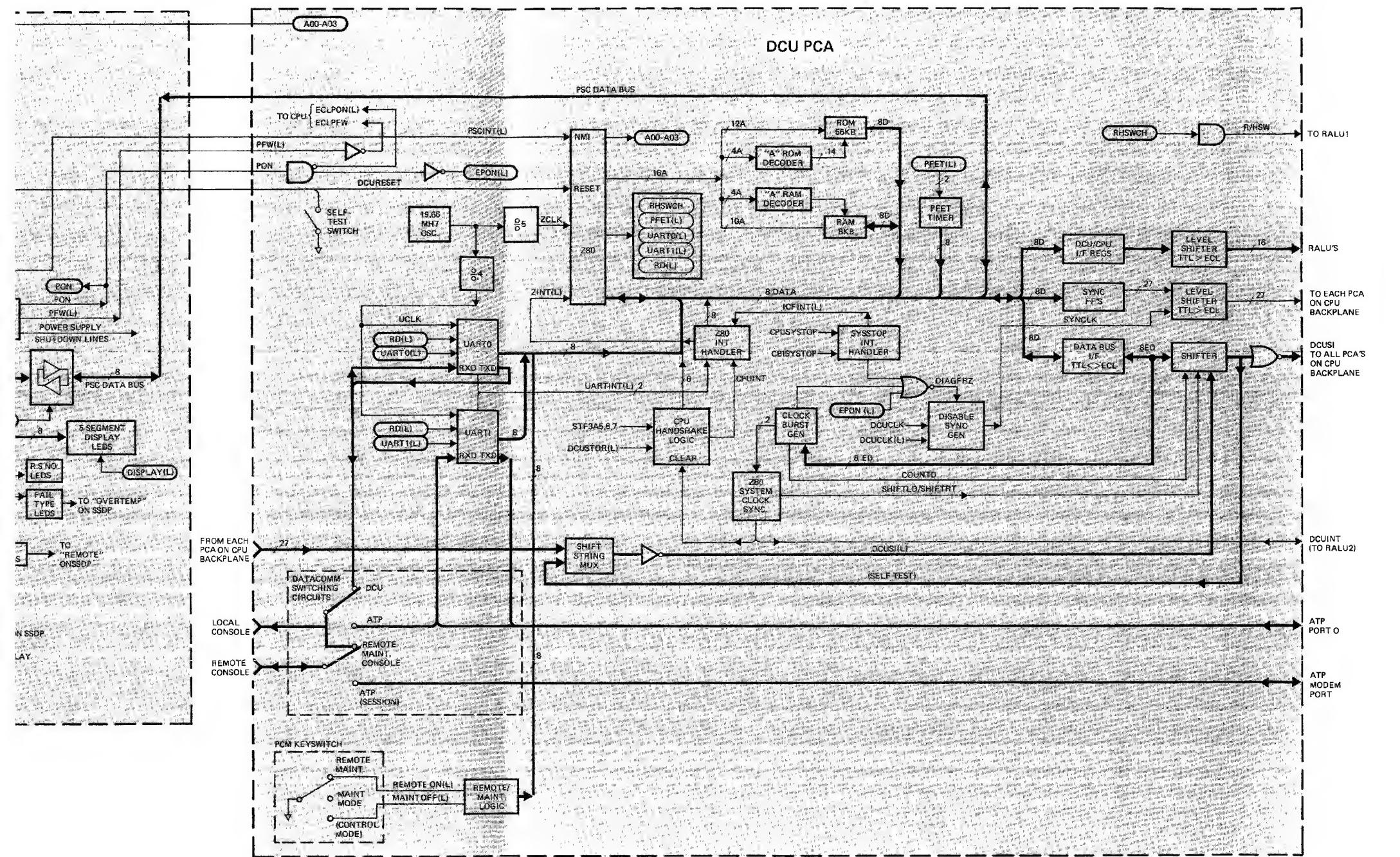
Intermodule Bus I/O Adapter



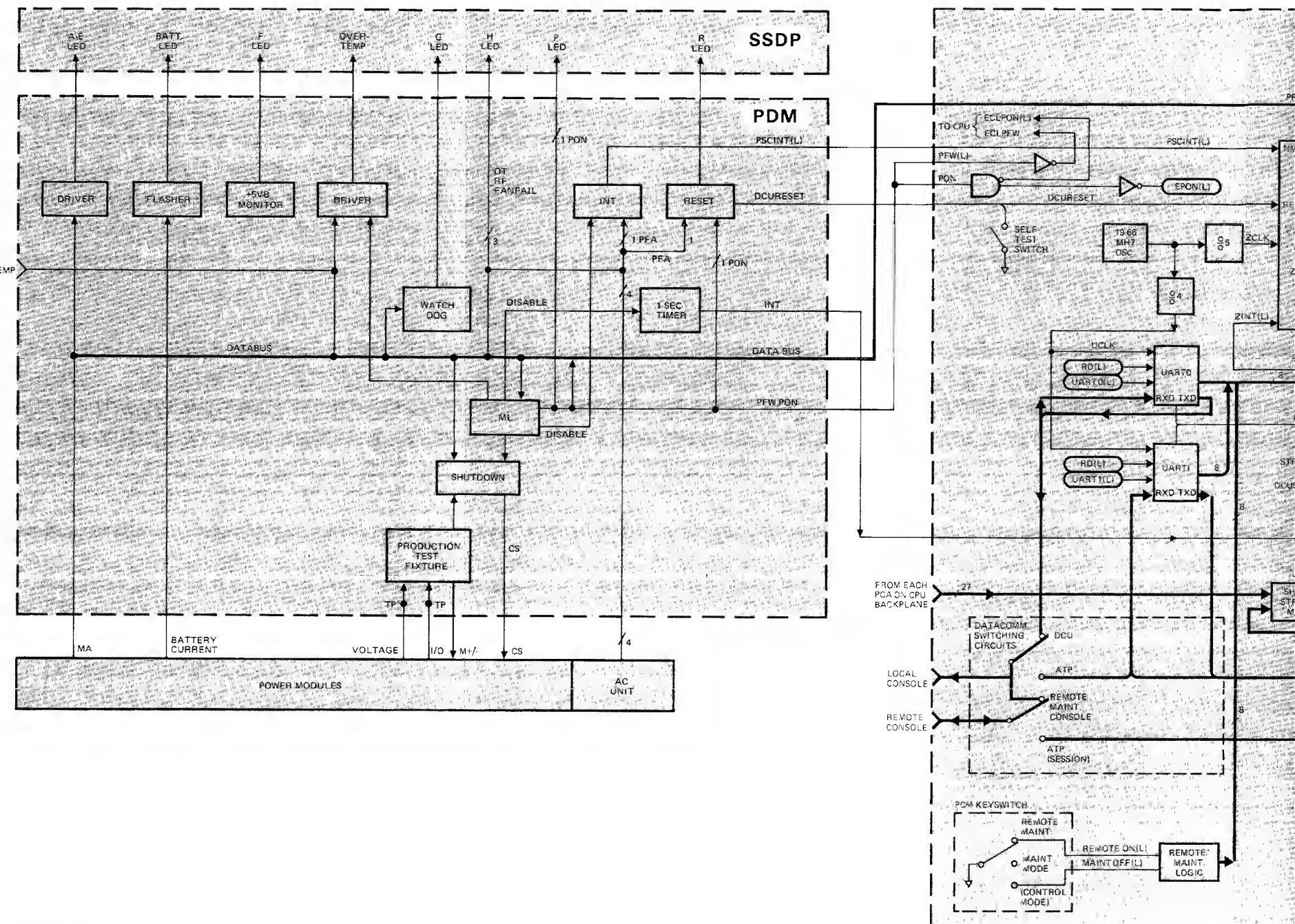


I/O System Module

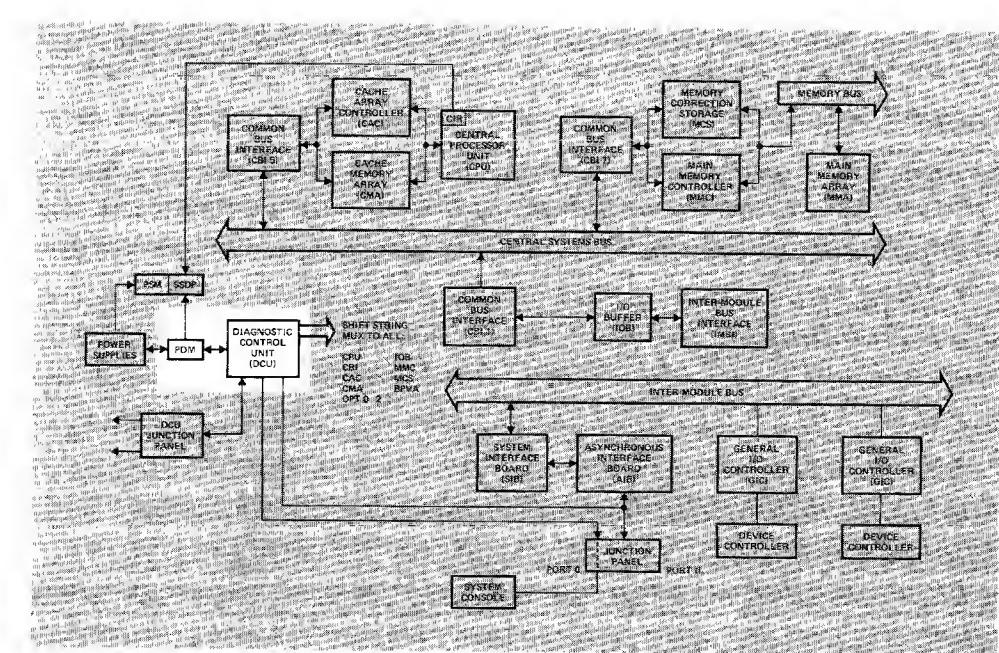
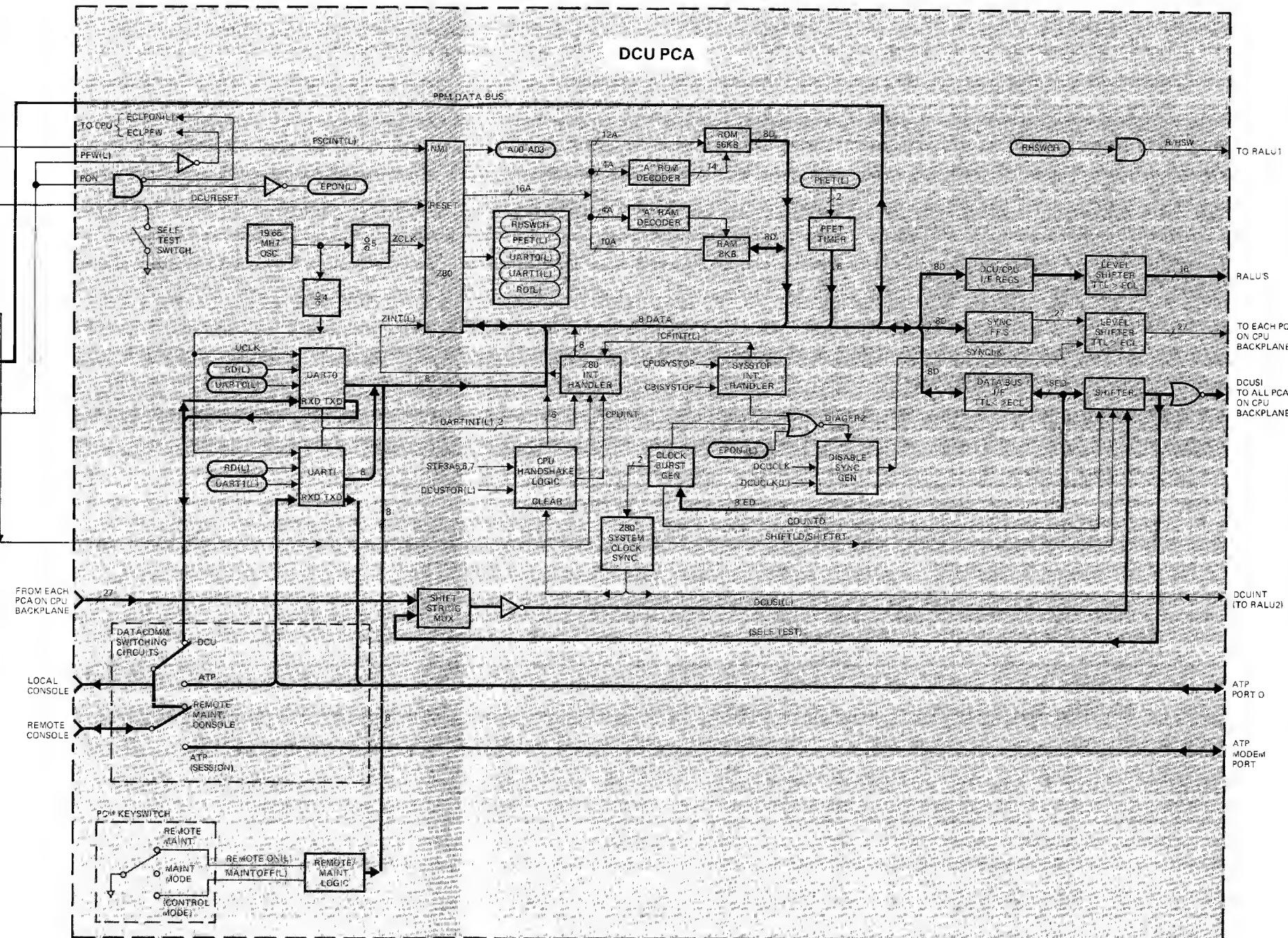




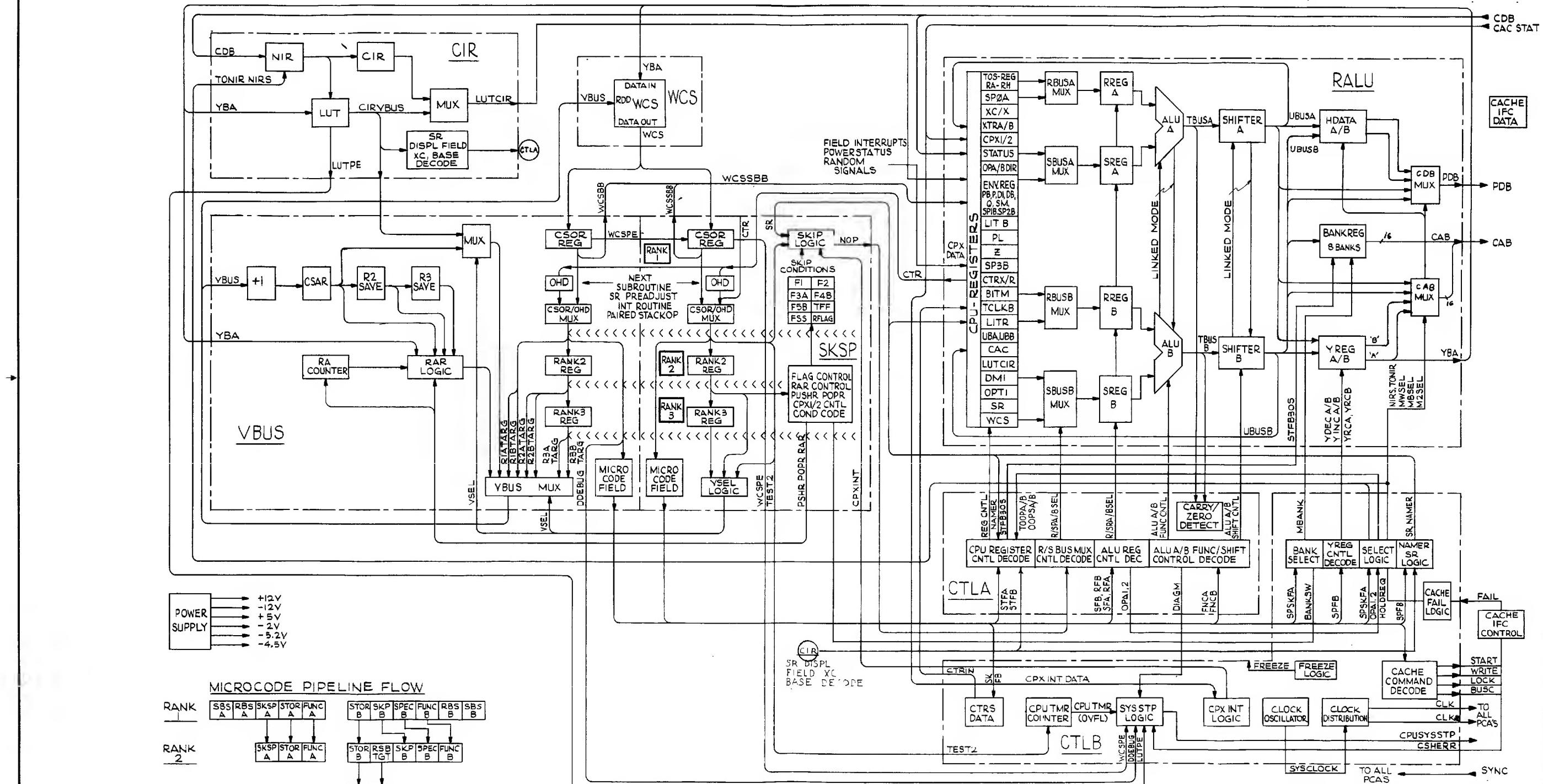
Diagnostic Control Unit/Power System Control



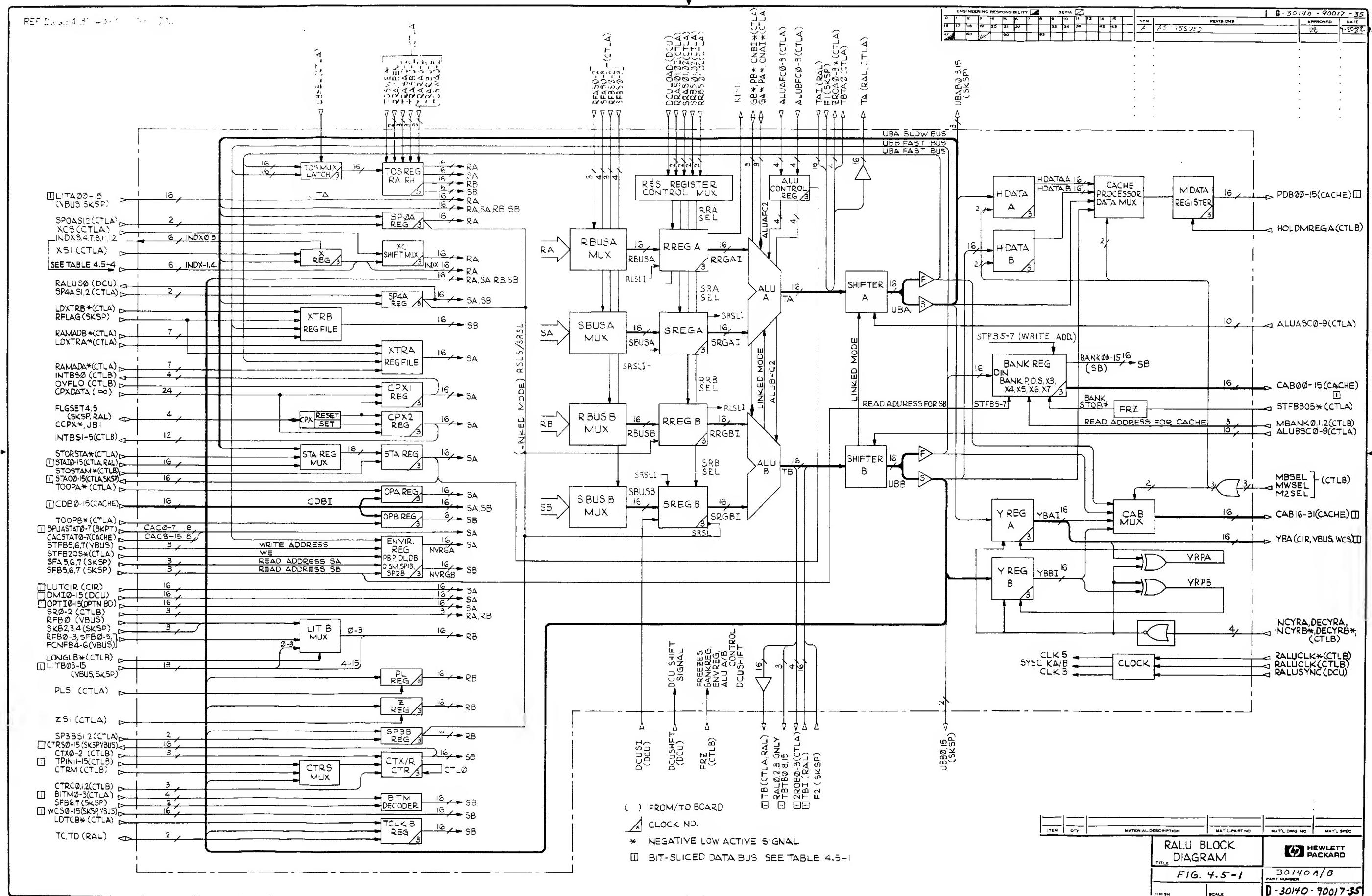
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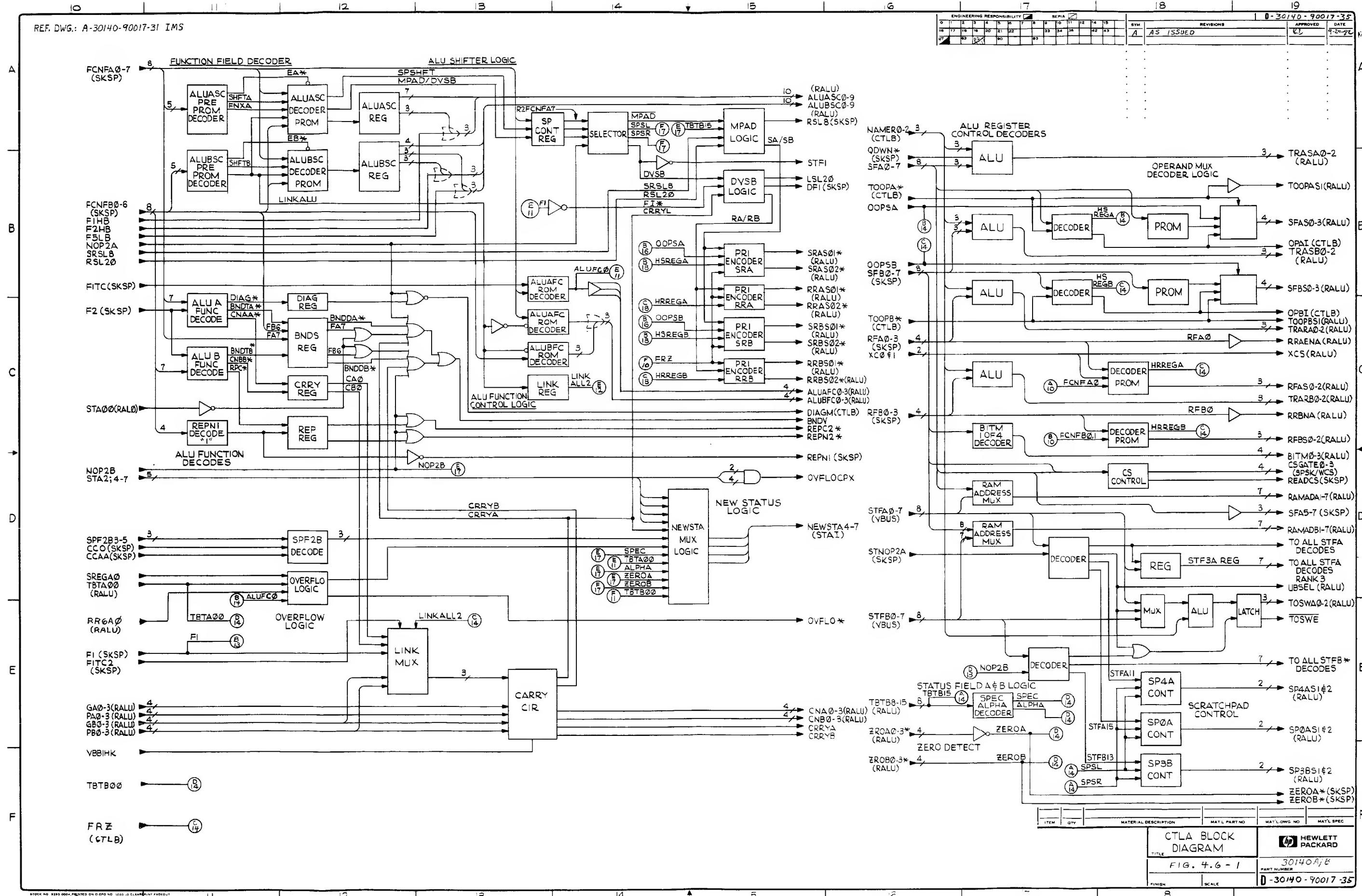


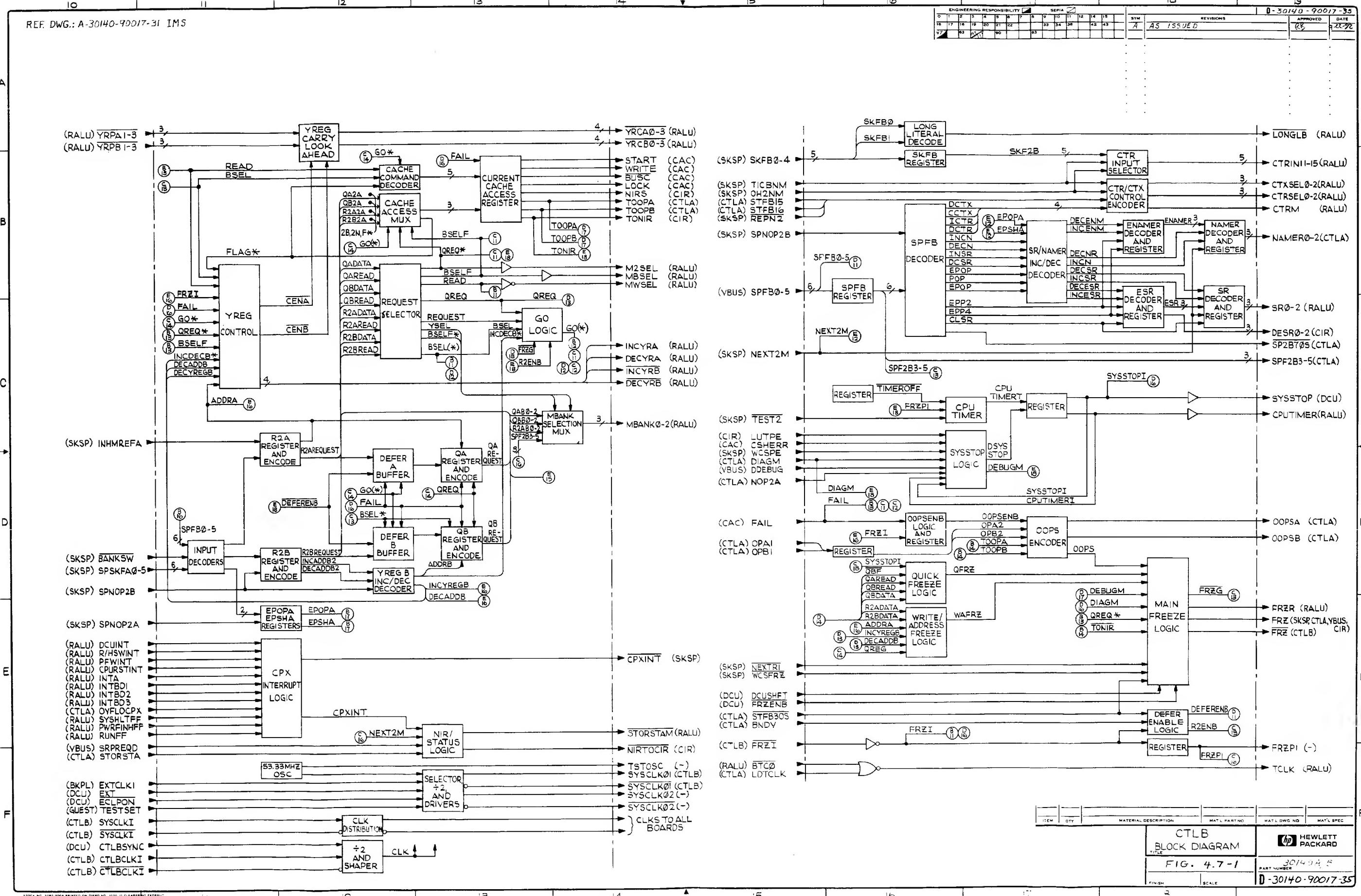
Diagnostic Control Unit/Power Distribution Monitor

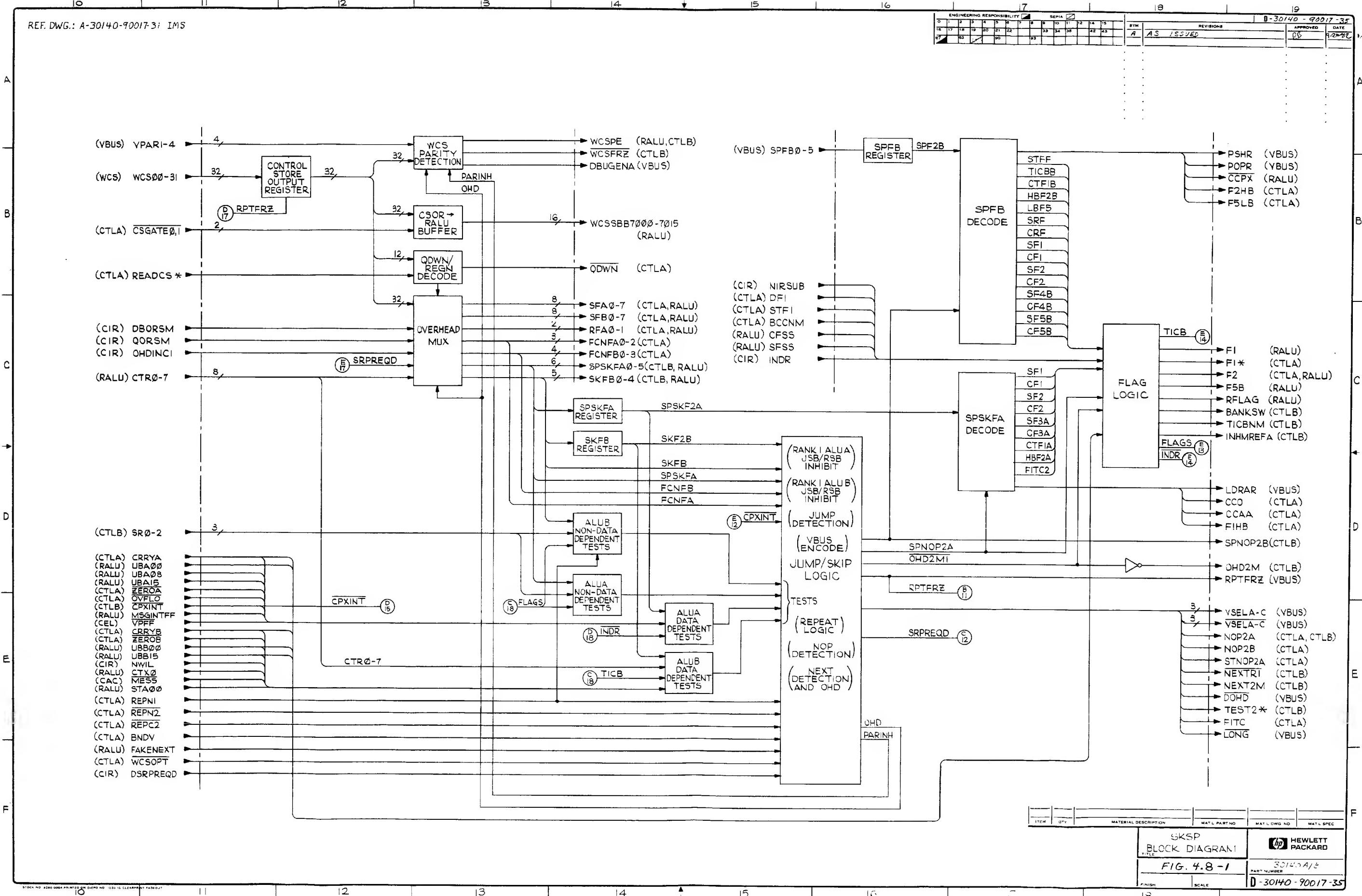


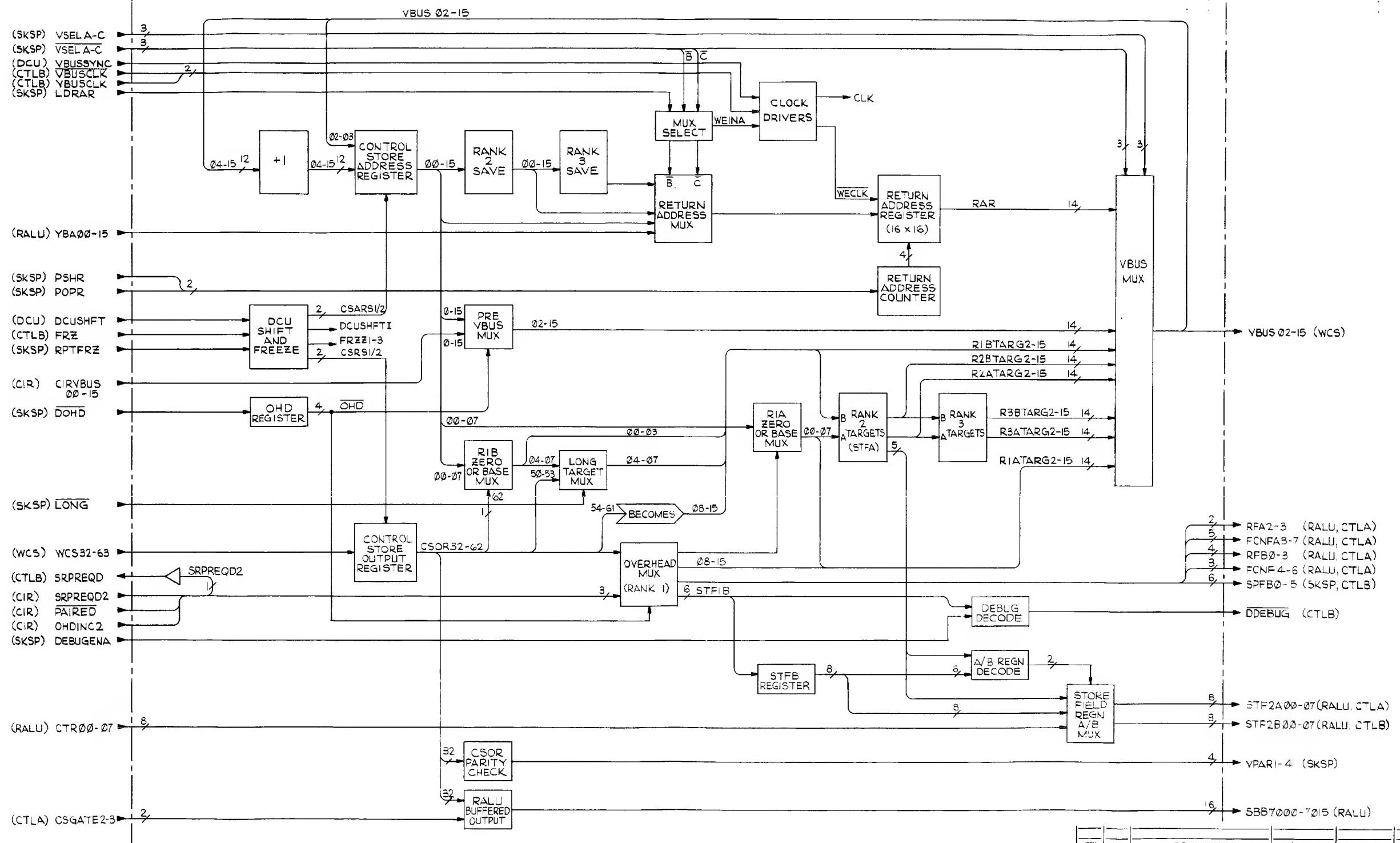
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CPU BLOCK DIAGRAM				
TITLE			HEWLETT PACKARD	
FIG. B-1			30140 A/8	PART NUMBER
FINISH			D - 30140 - 90017 - 35	SCALE





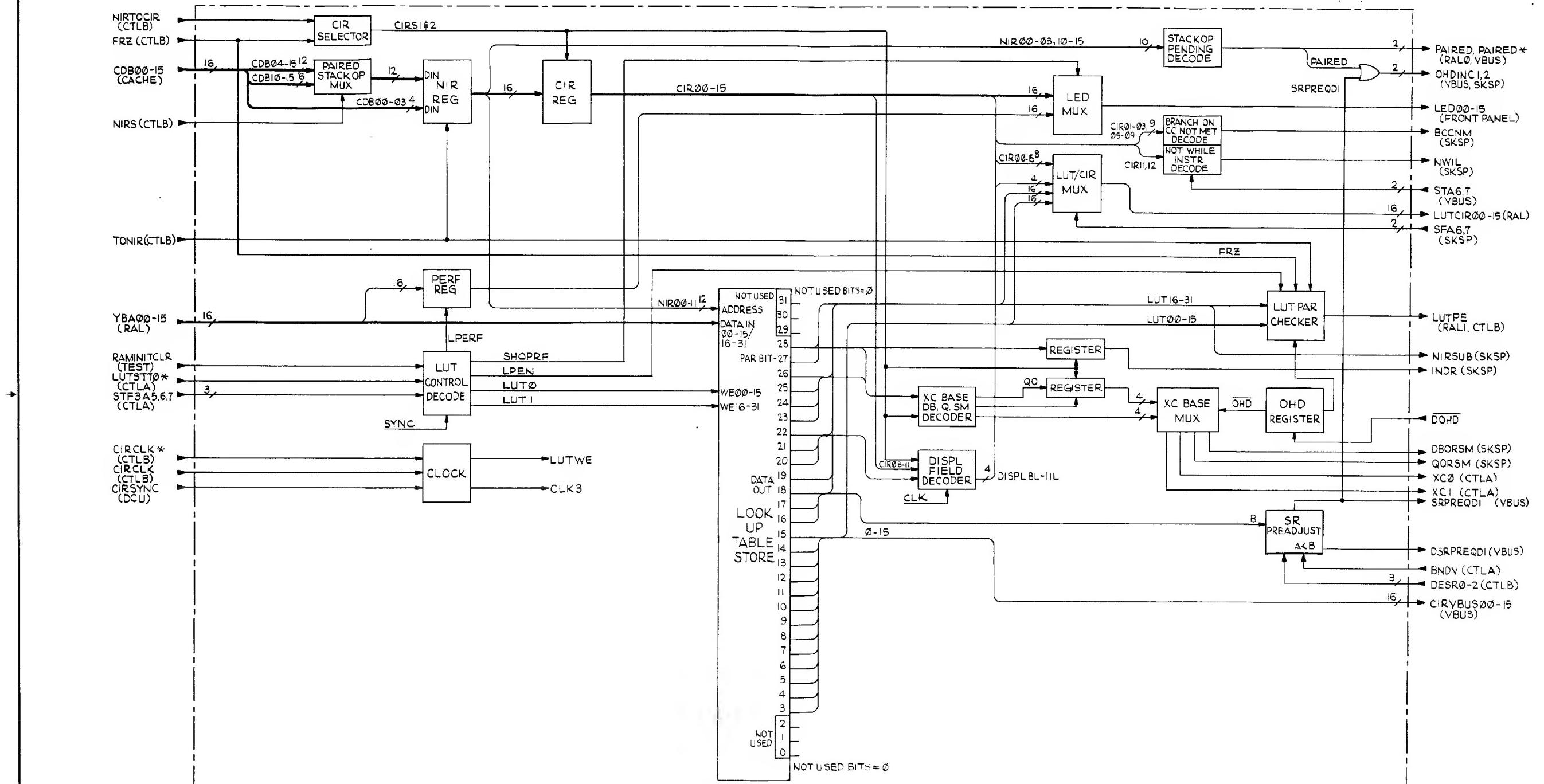






ITEM	QTY	MATERIAL DESCRIPTION	MATL PART NO	MATL DWG NO	MATL SPEC
VBUIS BLOCK DIAGRAM					
FIG. 4.9-1		HEWLETT PACKARD			
PART NUMBER	30140 A/B				
FINISH		SCALE			
D - 30140 - 90017 - 35					

ENGINEERING RESPONSIBILITY																SERIAL		I 0-30140 - 90017 - 35									
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	SYM	REVISIONS	APPROVED	DATE								
18	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	A	AS ISSUED	66	9-30-82								

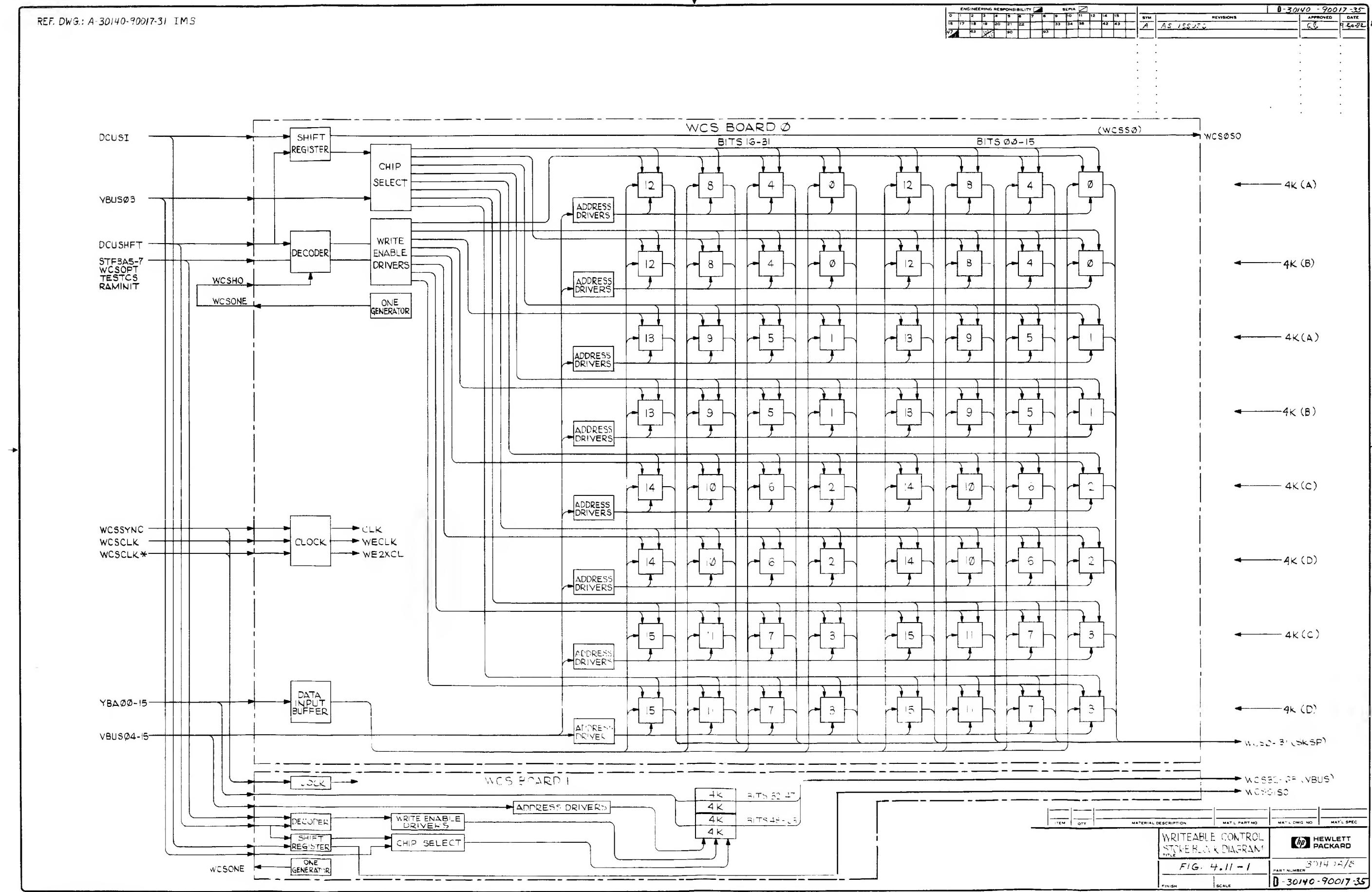


ITEM	QTY	MATERIAL DESCRIPTION	MATL PART NO	MATL DWG NO	MATL SPEC
CIR BLOCK DIAGRAM					
FIG. 4-10-1					
FINISH	SCALE				

HEWLETT PACKARD

30140 A/B

D-30140-90017-35



SYSTEM ASSEMBLY DRAWINGS

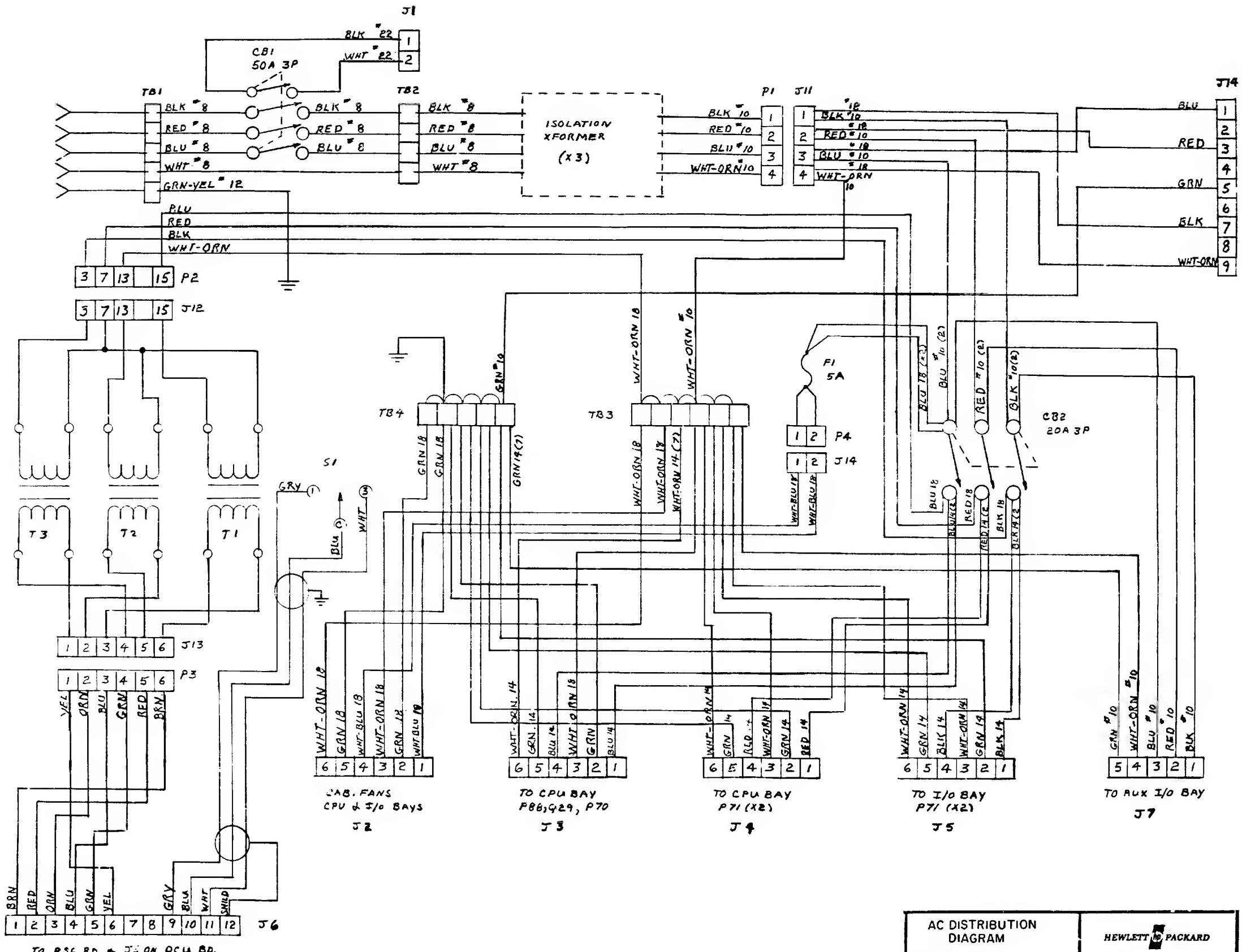
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II

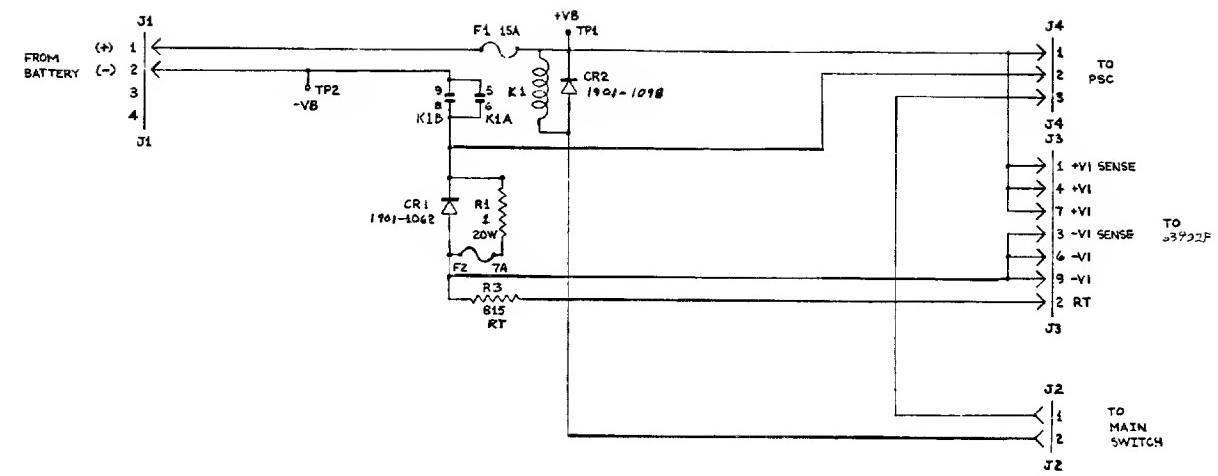
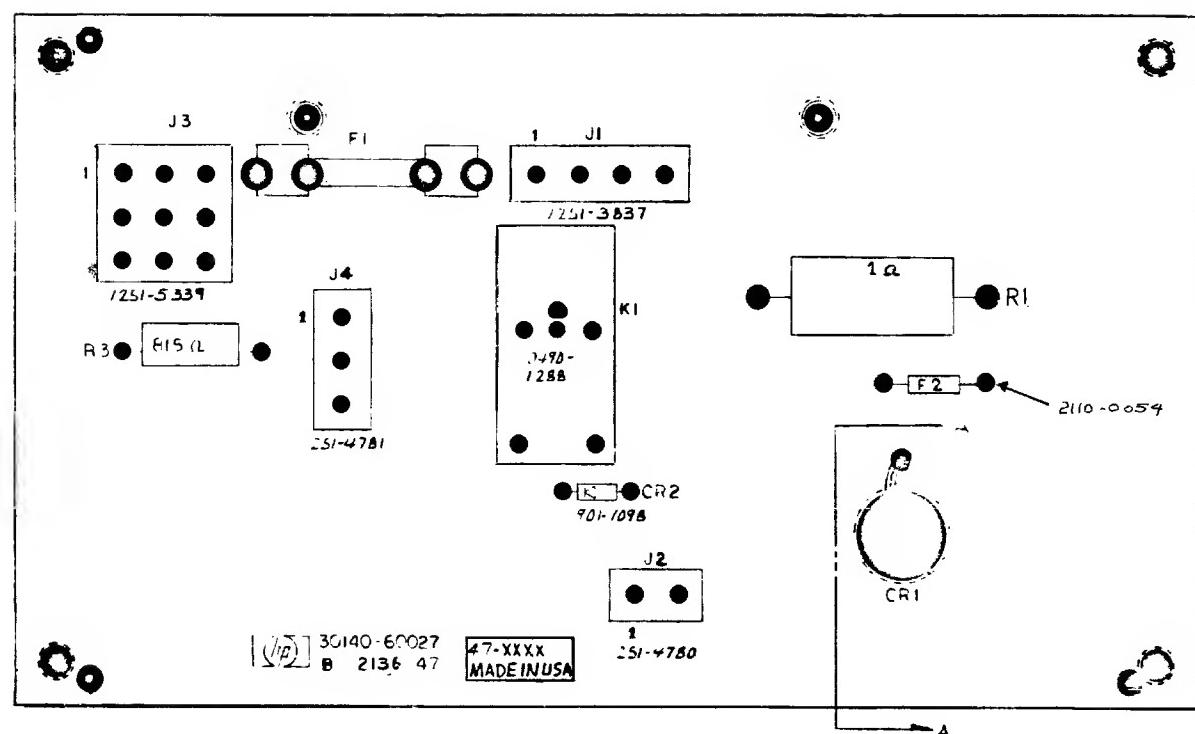
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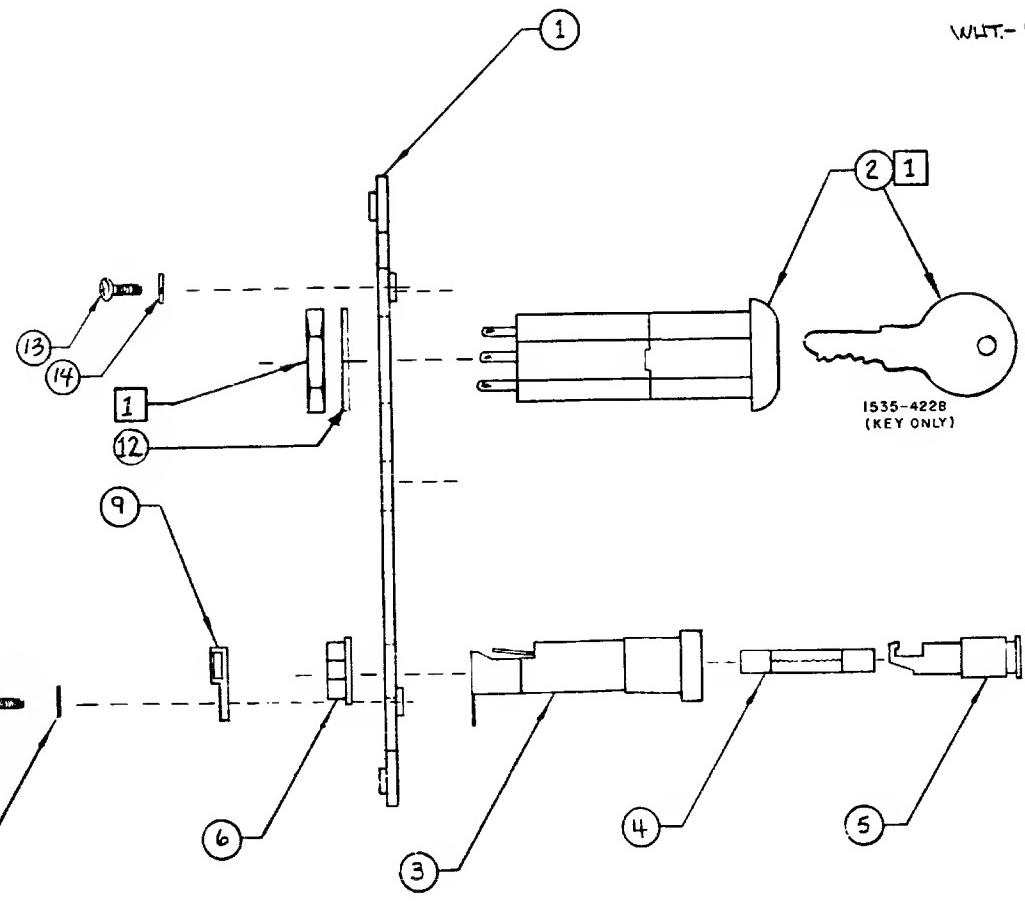
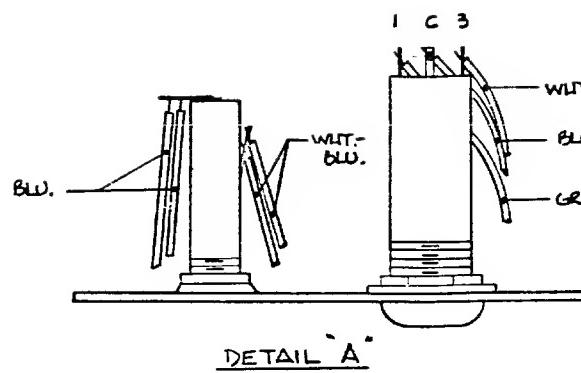
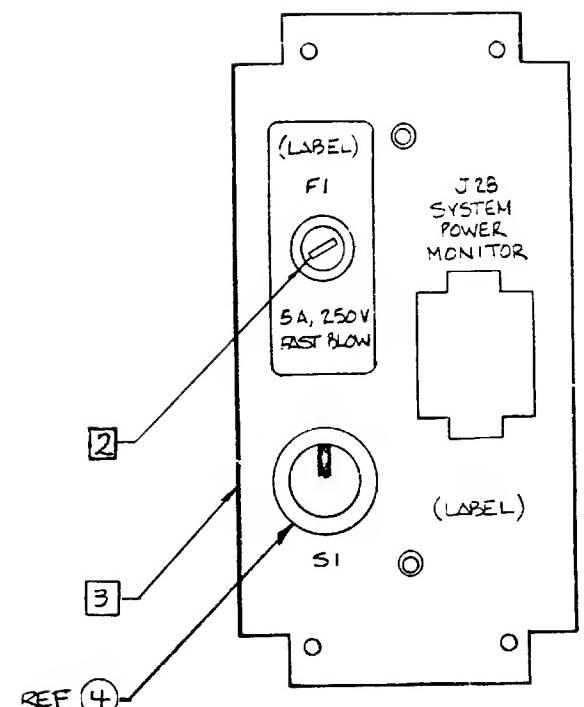


AC DISTRIBUTION DIAGRAM		HEWLETT PACKARD
TITLE		
NEXT ASSEMBLY		PART NUMBER
FINISH	SCALE	C-30140 - 60023 - 51

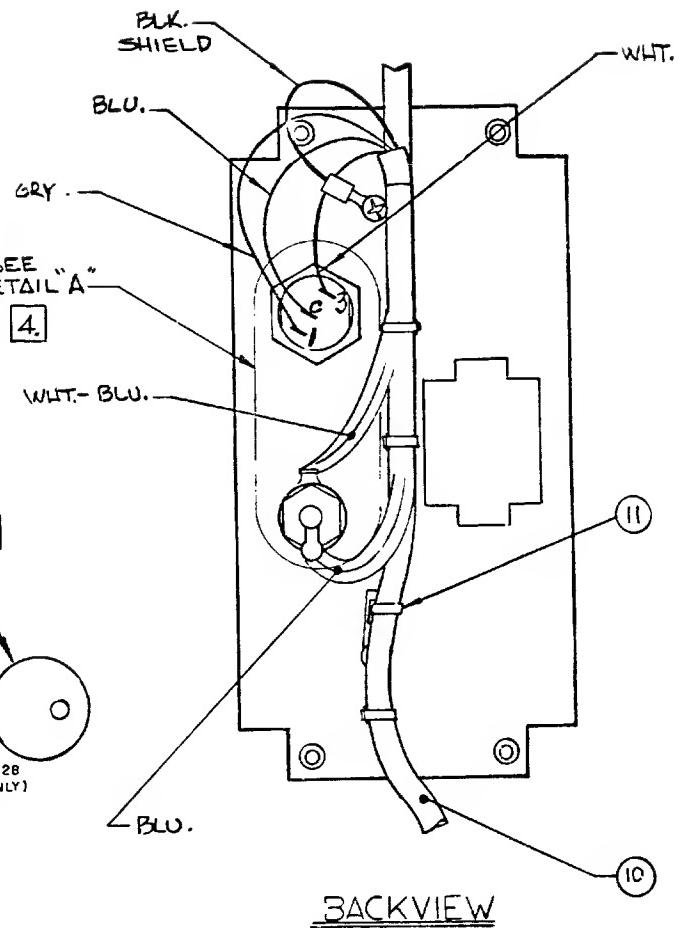


PCA - BCM	HEWLETT PACKARD
ASSY. DWG.	
30140-A	30140-60027
PRINTED	PART NUMBER
SCALE 2:1	D-30140-60027-3

PCA - BATTERY CONTROL MODULE	HEWLETT PACKARD
SCHEMATIC	
30140-A	30140-60027
PRINTED	PART NUMBER
SCALE	D-30140-60027-51



FRONTVIEW



BACKVIEW

NOTES:

- 1 KEYS AND HARDWARE TO BE FURNISHED WITH ITEM ②.
- 2 INSTALL ITEM ② AS SHOWN.
- 3 MAKE SURE SHEETMETAL PART IS SILKSCREENED AS SHOWN.
- 4 INSTALL WIRES DOWNWARD AS SHOWN IN DETAIL "A" BEFORE SOLDERING.

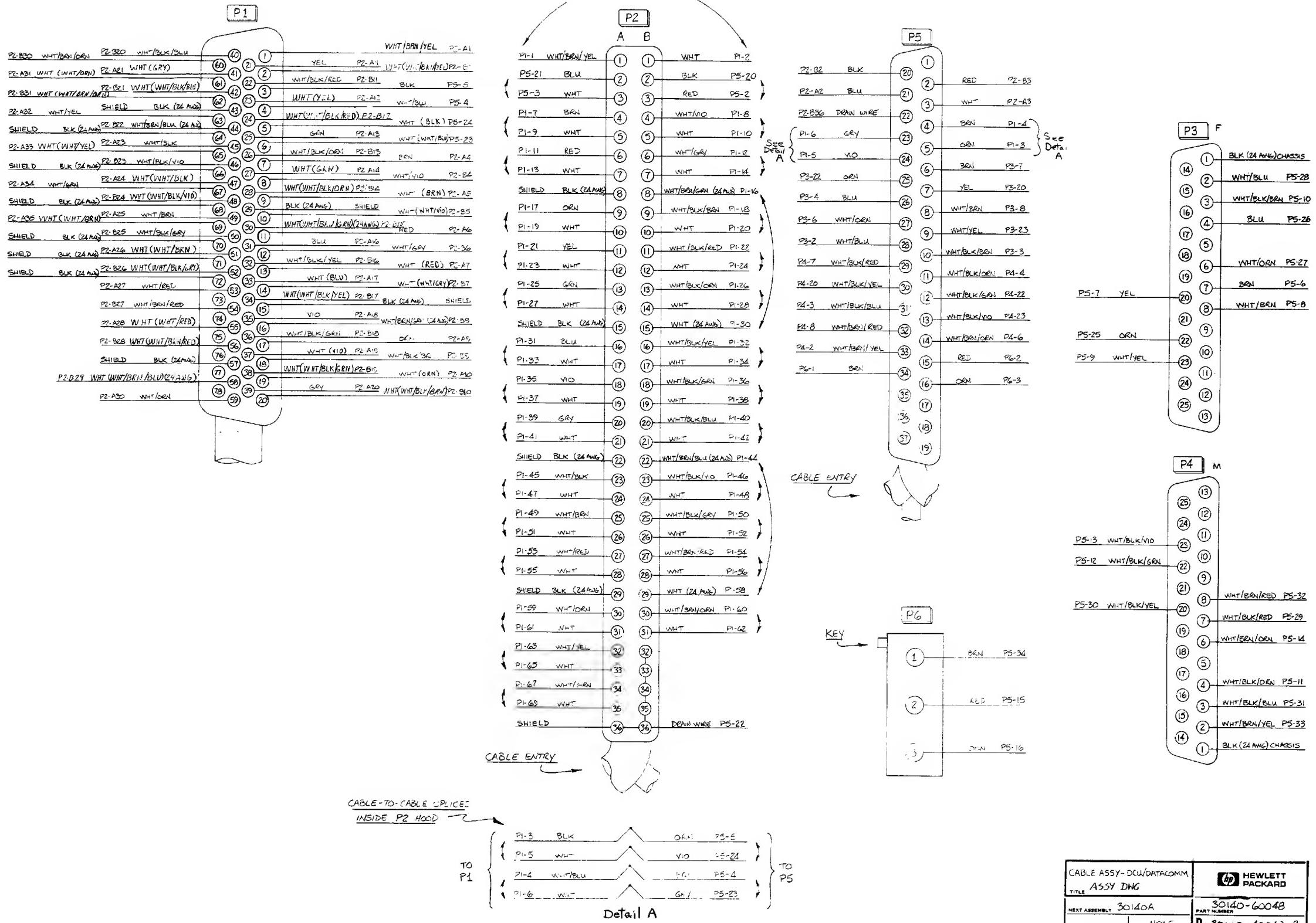
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13	1	SCR. 6-32 X .25 PH	2360-0193			
12	1	WASHER-LOCK	2190-0051			
11	1	CABLE TIE	1400-0249			
10	-	CABLE - FUSE	REF. 30140-60036 C-2			
9	1	MOUNT - CABLE TIE	1400-0786			
8	1	SCR. # 6-32X.38 PH W/L	2360-C+29			
7	1	WASHER - # 6 FLAT SS	3050-0228			
6	1	FUSE HOLDER MTG. NUT	2110-0569			
5	1	FUSEHOLDER-CAP	2110-0565			
4	1	FUSE - 5 A, 250 V FB	2110-0010			
3	1	FUSEHOLDER - BDY	2110-0566			
2	1	SWITCH - LOCK	1390-C482			
1	1	PLATE - MTG. DC.H FUSES	30140-00058			

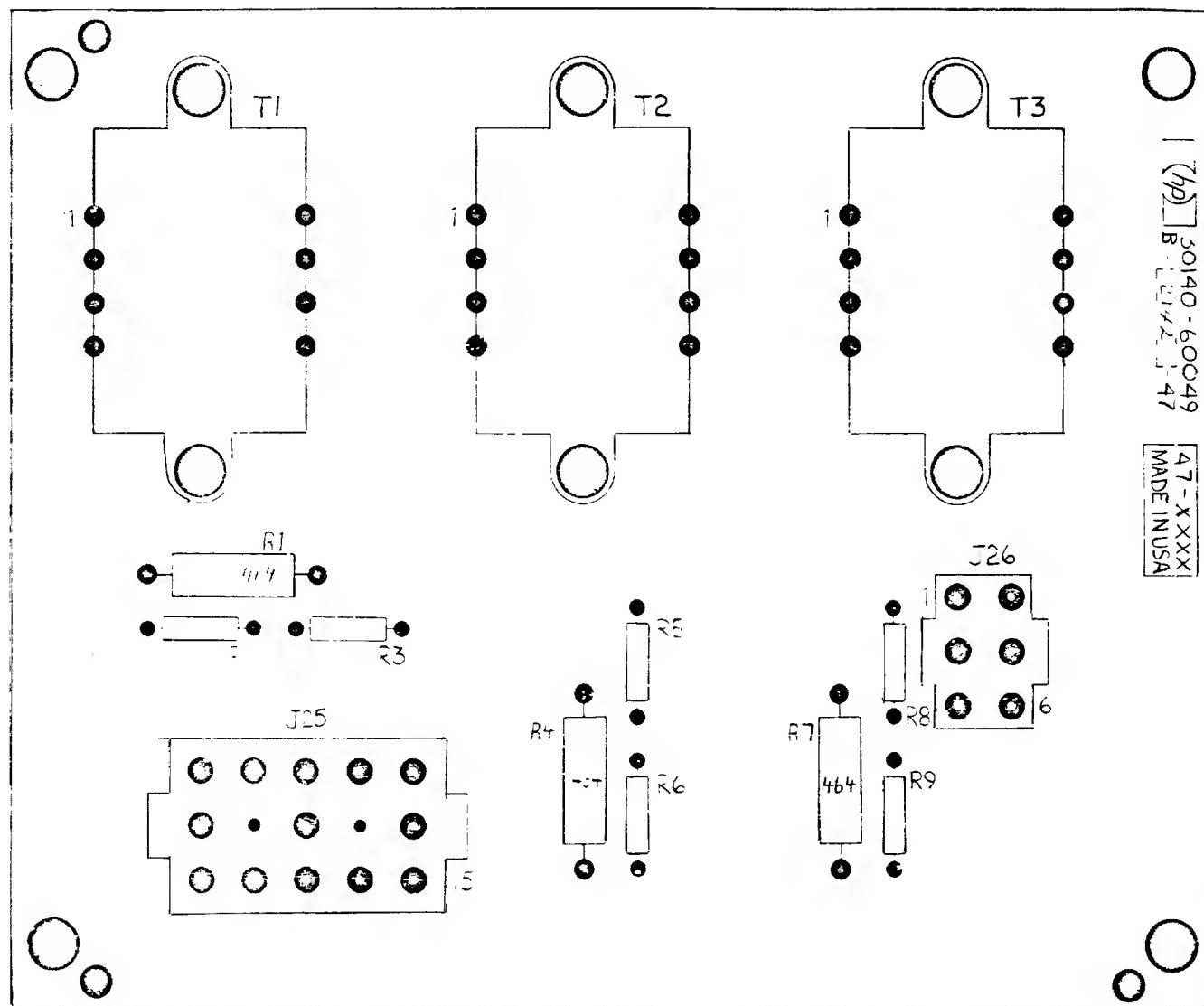
CA. - FUSE
WIRING & ASSEMBLY
TITLE

HEWLETT PACKARD

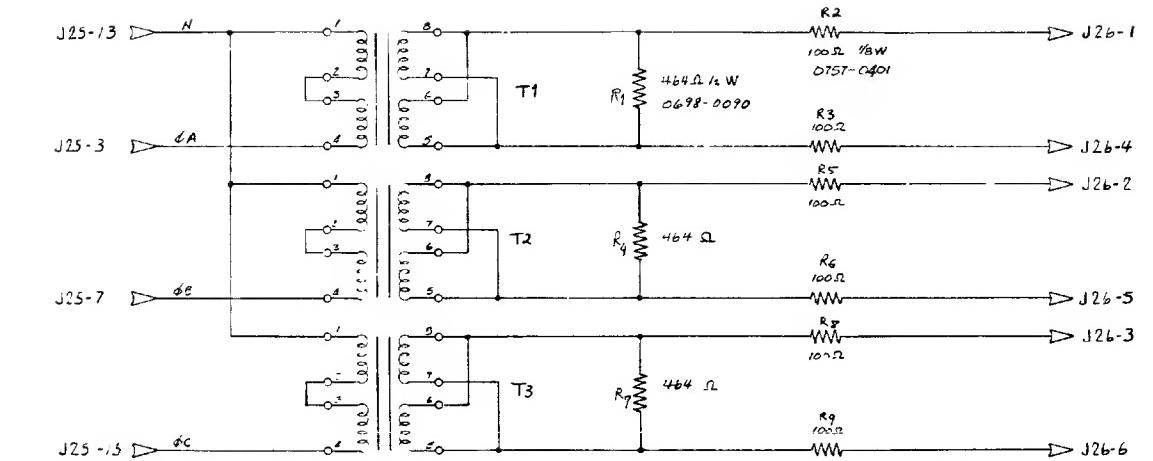
30140-60036

PART NUMBER
C-30140-60036-1

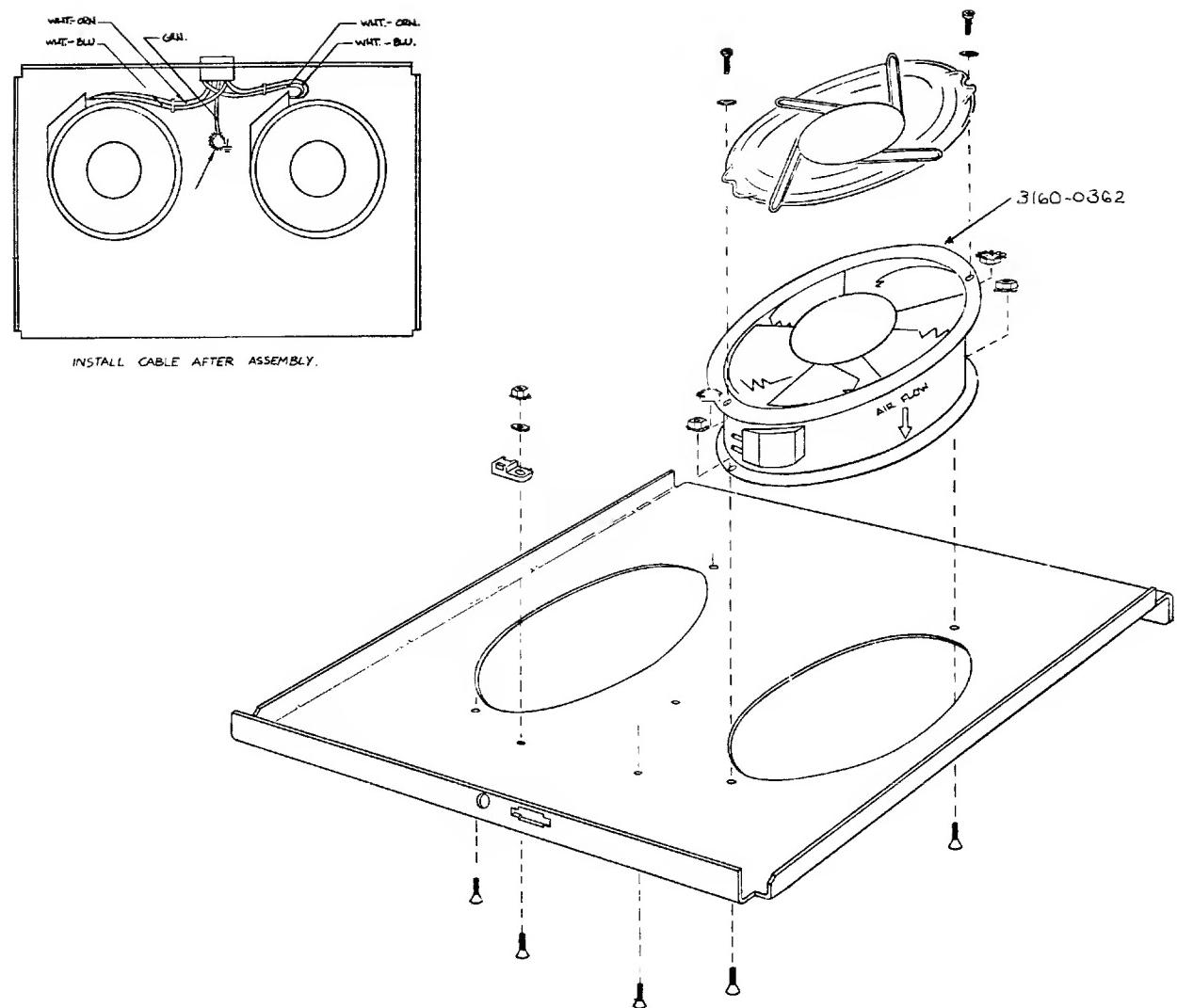




PCA-AC SENSE TRANSFORMER ASSY DWG	30140-60049
C-30140-60049-2	



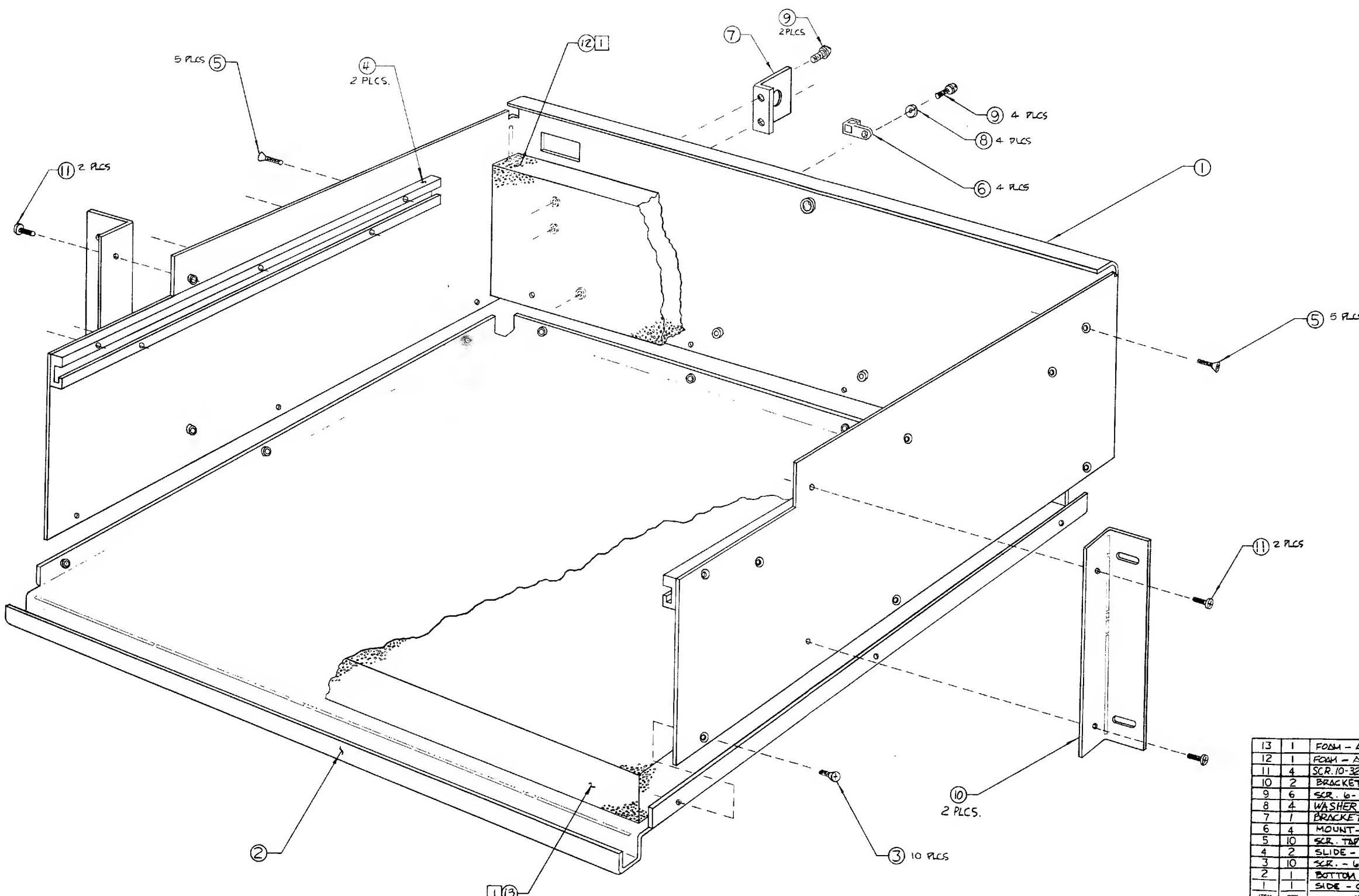
PCA - AC SENSE TRANSFORMER SCHEMATIC DWG - 30140-60023	30140-60049
NEXT ASSEMBLY	PART NUMBER
FINISH	SCALE
C-30140-60049-S1	



MAINFRAME - SERIES 64 I/O PLENUM FAN TRAY ASSEMBLY		PRINT
30140 A	30140-60063	HEWLETT PACKARD
RECYCLED	NONE	PART NUMBER
FRONT	D 30140-60063-1	REAR

ENGINEERING RESPONSIBILITY																SEPA		
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	SYM	REVISONS	APPR
16	17	18	19	20	21	22		23	24	25	26	27	28	29	30	A	AS ISSUED PER PCO 47-3397	
																B	REVISED PER PCO 47-3537	RT/

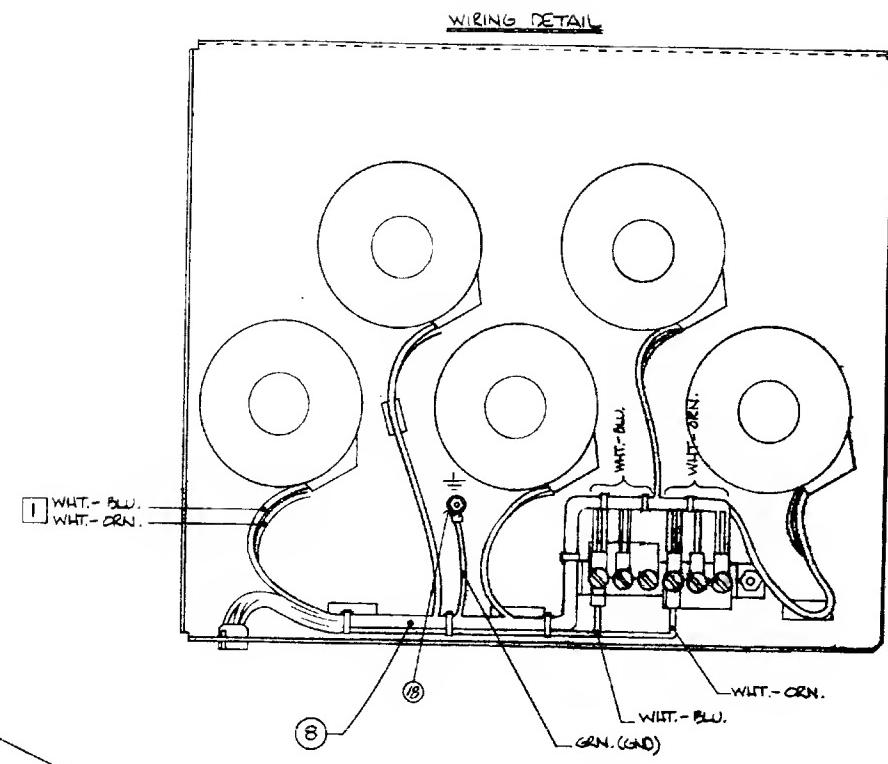
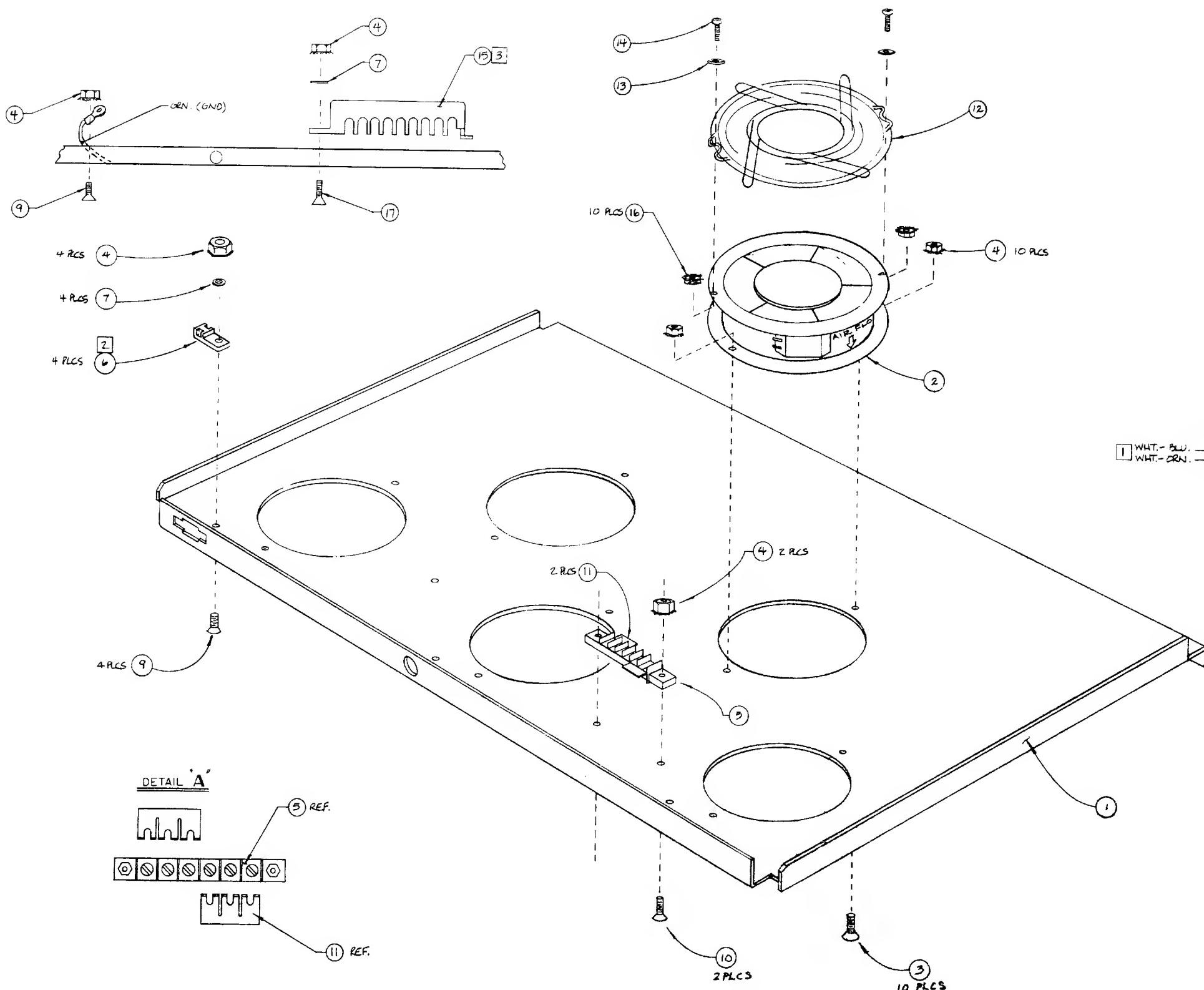
D-30140

NOTES:

- (1) LAST STEP, APPLY ITEM
(13), THEN ITEM (12).

ITEM	QTY	MATERIAL-DESCRIPTION	ITEM	QTY	MATERIAL-DESCRIPTION
13	1	FOAM - ACOUSTIC	4208-0593		
12	1	FOAM - ACOUSTIC	4208-0592		
11	4	SCR. 10-32 X .50 PH W/L	2680-0274		
10	2	BRACKET - MTG. PLENUMS	30140-00018		
9	6	SCR. 6-32 X .38 PH W/L	23140-0359		
8	4	WASHER #6 FLAT	30140-0228		
7	1	BRACKET - MTG. DIODE	30140-00010		
6	4	MOUNT - CABLE TIE	1400-0700		
5	10	SCR. TNP 6-32 X .5 L	0624-0213		
4	2	SLIDE - FAN TRAY	40140-2010		
3	10	SCR. - 6-32 X .31 FH	23140-0100		
2	1	BOTTOM - CPU PLENUM	30140-00011		
1	1	SIDE - CPU PLENUM	30140-00012		

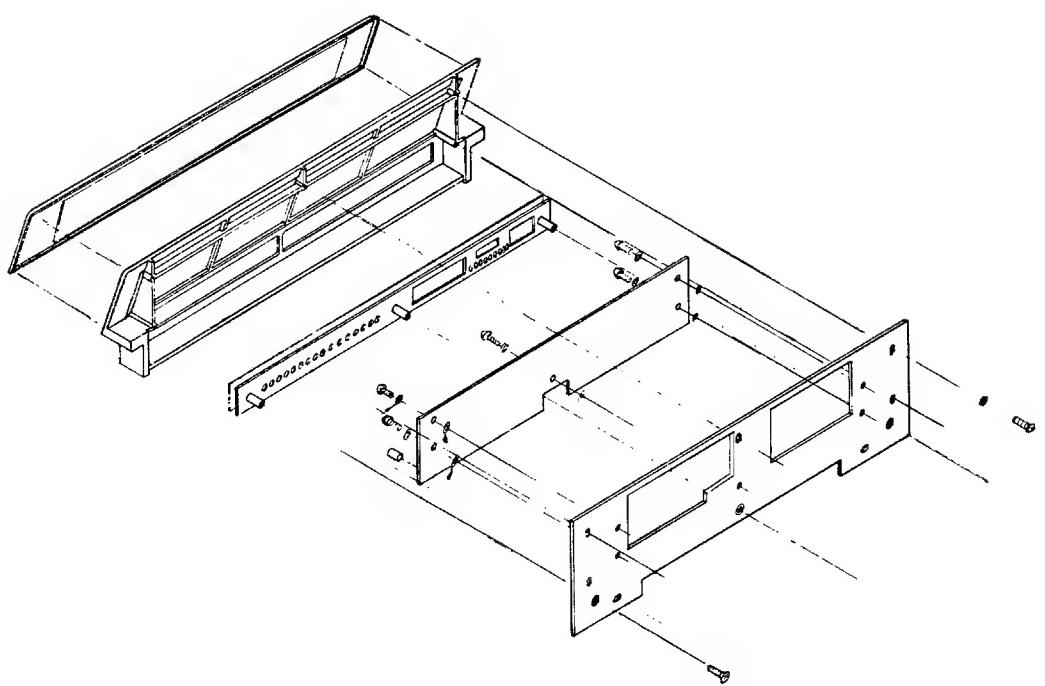
MAINFRAME - SERIES 64	CPU PLENUM ASSEMBLY
TITLE	HEWLETT PACKARD
NEXT ASSEMBLY	PERM. PRINT
FINISH	SCALE
D-30140-60066-1	



NOTES:

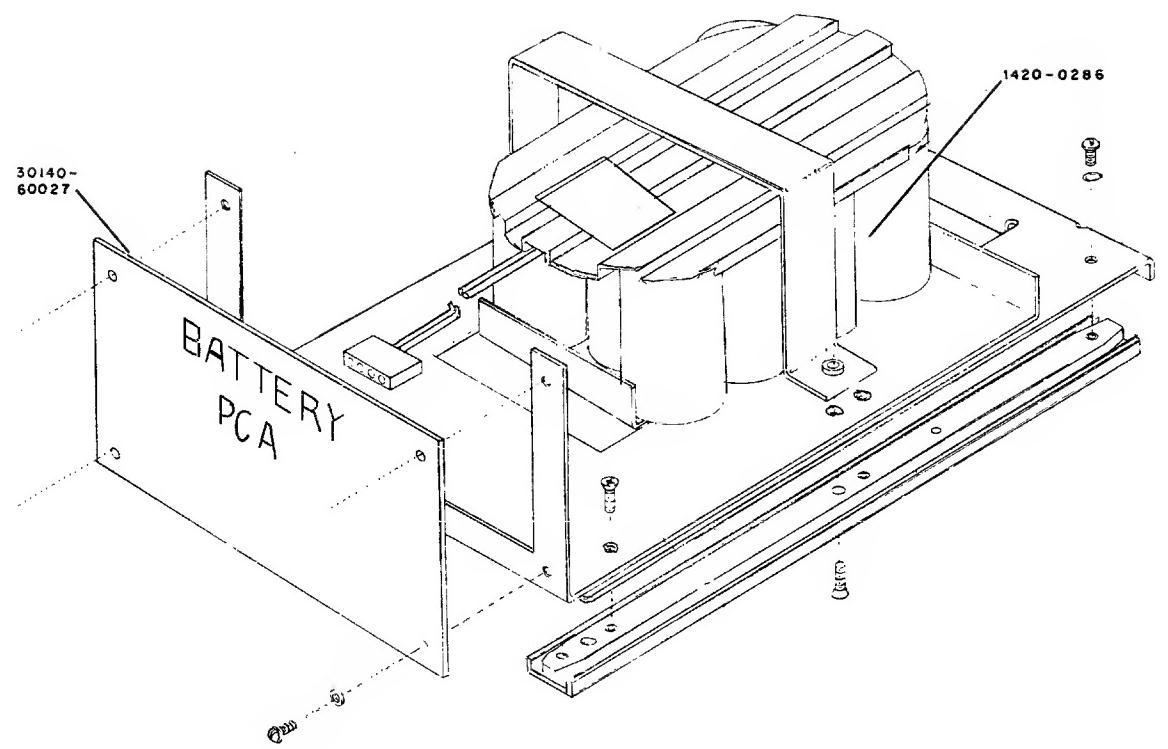
- 1 WHT.-BLU. WIRE ON TOP, WHT.-ORN. WIRE ON BOTTOM - ALL FANS.
 - 2 REFER TO WIRING DETAIL FOR LOCATION OF CABLE TIE MOUNTS.
 - 3 INSERT TAB INTO SLOT AND SECURE WITH HARDWARE. MOUNT ITEM (F) LAST.

MAINFRAME - SERIES 64		HEWLETT PACKARD PERM. PRINT
CPU PLENUM ASSEMBLY		
TITLE FAN TRAY		
NEXT ASSEMBLY		PART NUMBER
		D-30140-60066-2
FINISH	SCALE	

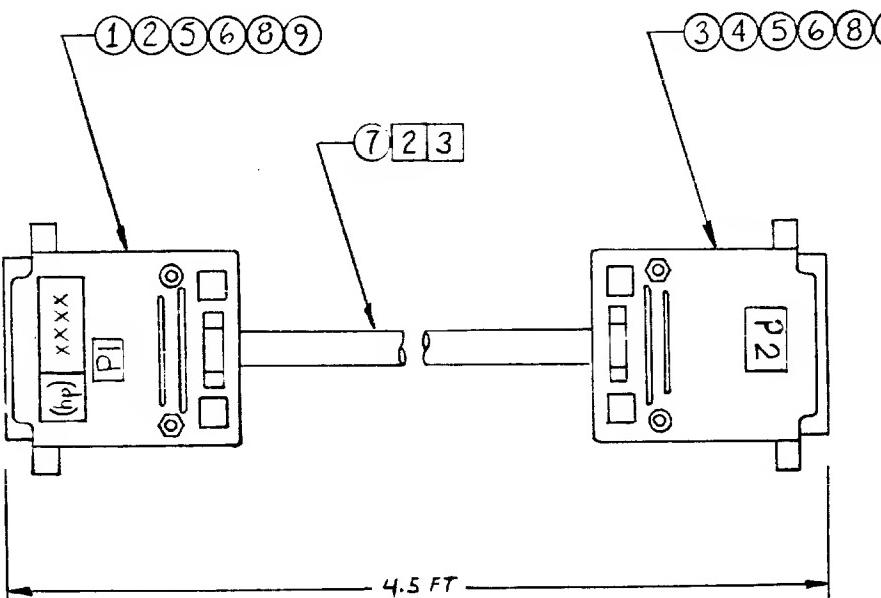
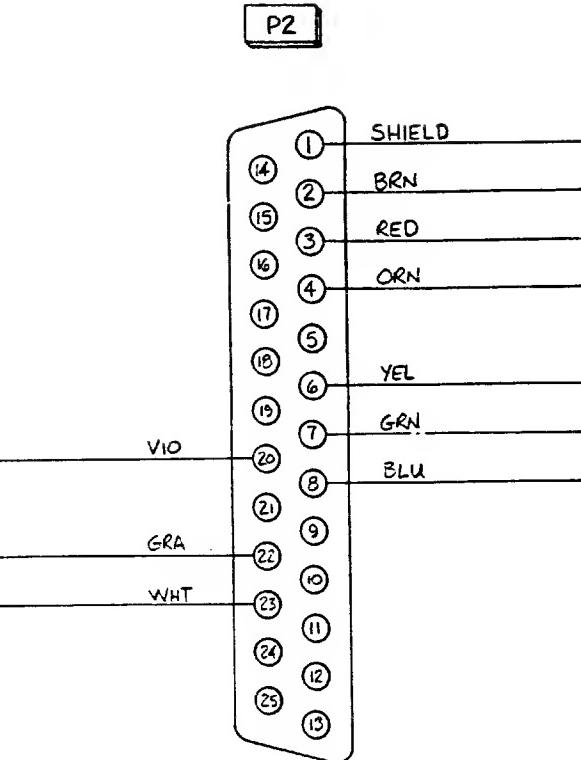
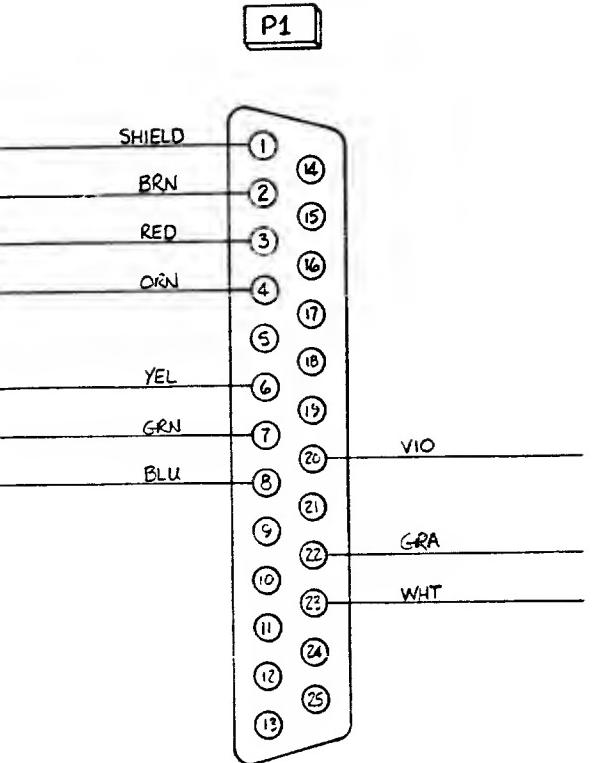


MAINFRAME-SEGMENT 64	HEWLETT
SYSTEM DISPLAY	PACKARD
PANEL ASSEMBLY	
30140 A	PART NUMBER

- APPROX. PAGE 3-1 D 30140-60070-1



MAINFRAME - SERIES 64	HEWLETT
BATTERY MODULE	PACKARD
ASSEMBLY	
30140A	30140-60071
30140-60071	30140-60071A



NOTES:

1. MARK 'P1' AND 'P2' ON HOODS AS SHOWN, PIN 1 SIDE, + HP logo PER DWG. A-5955-1724-2.
2. STRIP OUTER INSULATION 1" BOTH ENDS.
3. STRIP WIRES 3/16" BOTH ENDS.
4. USE JUMPER WIRE ITEM ⑧, AND SHRINK TUBING ITEM ⑨ IN CONNECTING SHIELD.
5. COVER ENDS OF UNUSED WIRE (WHT/BRN) WITH SHRINK TUBING ITEM ⑨.
6. ASSEMBLE CONNECTOR HOODS PER DWG A-5955-1724-1.

ITEM	QTY	MATERIAL DESCRIPTION	MAT'L. PART NO	MAT'L. DWG NO	MAT'L. SPEC.
9	0.2 FT	TUBING - HEAT SHRINK 0.093D	0690-0706		
8	0.3 FT	WIRE - BLK 24 AWG	3150-0447		
7	4.5 FT	CABLE - SHLD. 10 COND 26 AWG	B120-2722		
6	2	CABLE TIE	1400-0249		
5	2	HOOD - CONN SM-D25	1251-4891		
4	10	CONTACT - CONN FEM. CRIMP	1251-5781		
3	1	CONN - SM-D 25F	1251-2416		
2	10	CONTACT - CONN MALE CRIMP	1251-5783		
1	1	CONN - SM-D 25M	1251-2417		

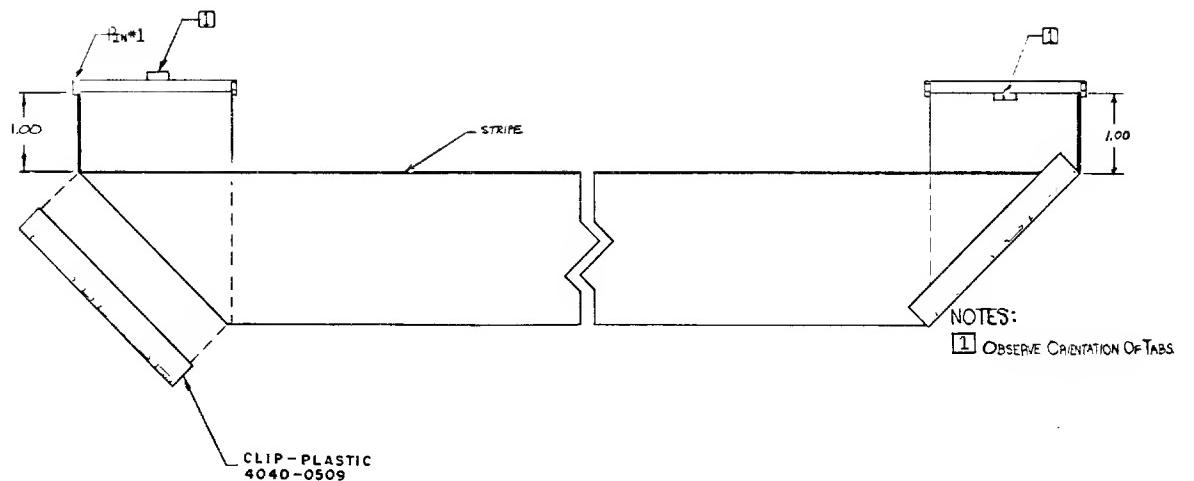
CABLE ASSY-
MODEM JUMPER
TITLE

HEWLETT
PACKARD

30140-60081

PART NUMBER

C-30140-60081-1



FCA-10B/IMB1	HEWLETT PACKARD
30140-A	30140-60082
NET ASSEMBLY	PART NO.
FINISH	SCALE

REF DWG#S D-1
D-3
C-4
C-5

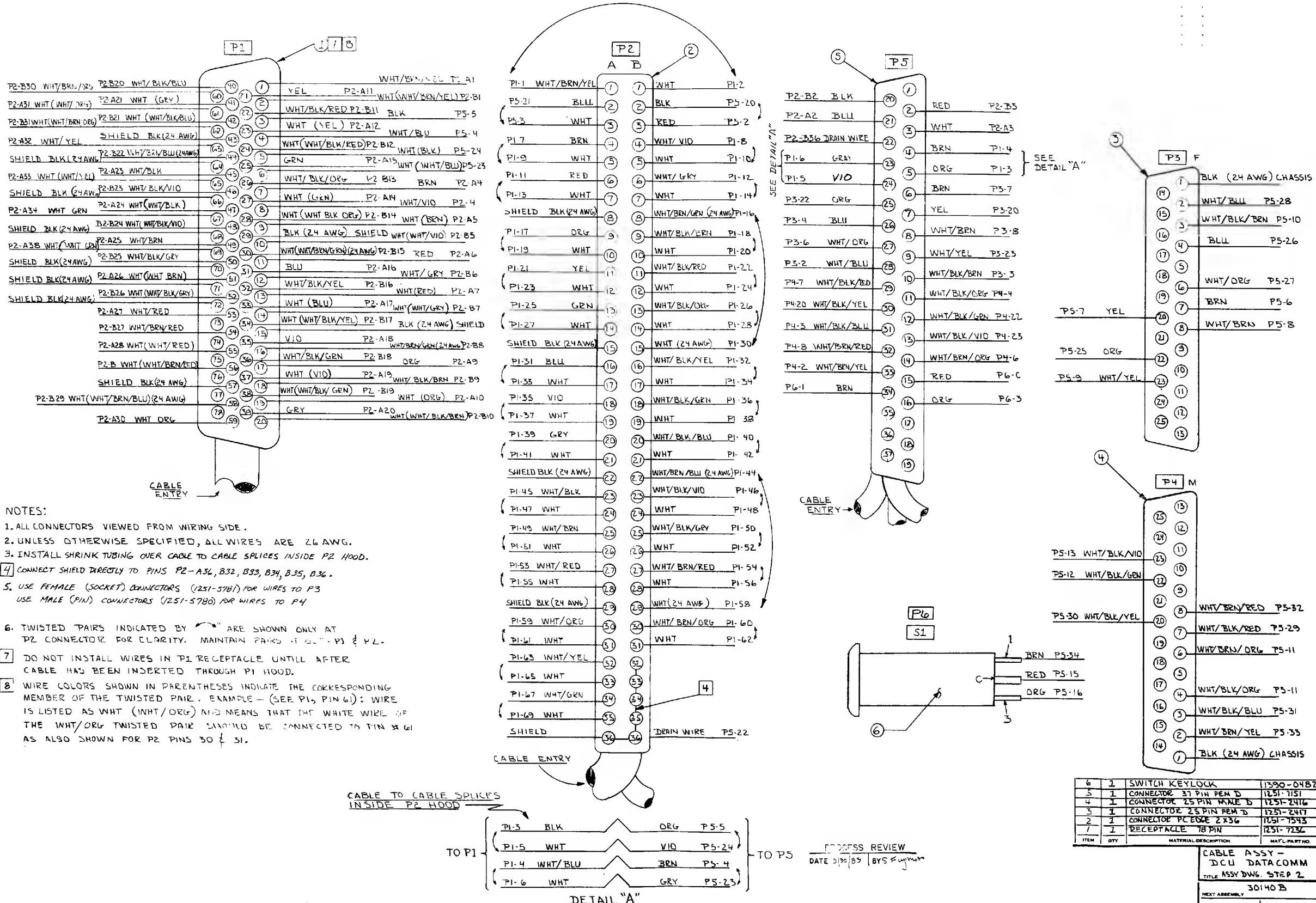
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0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	03	90	93	370	1-20-83	

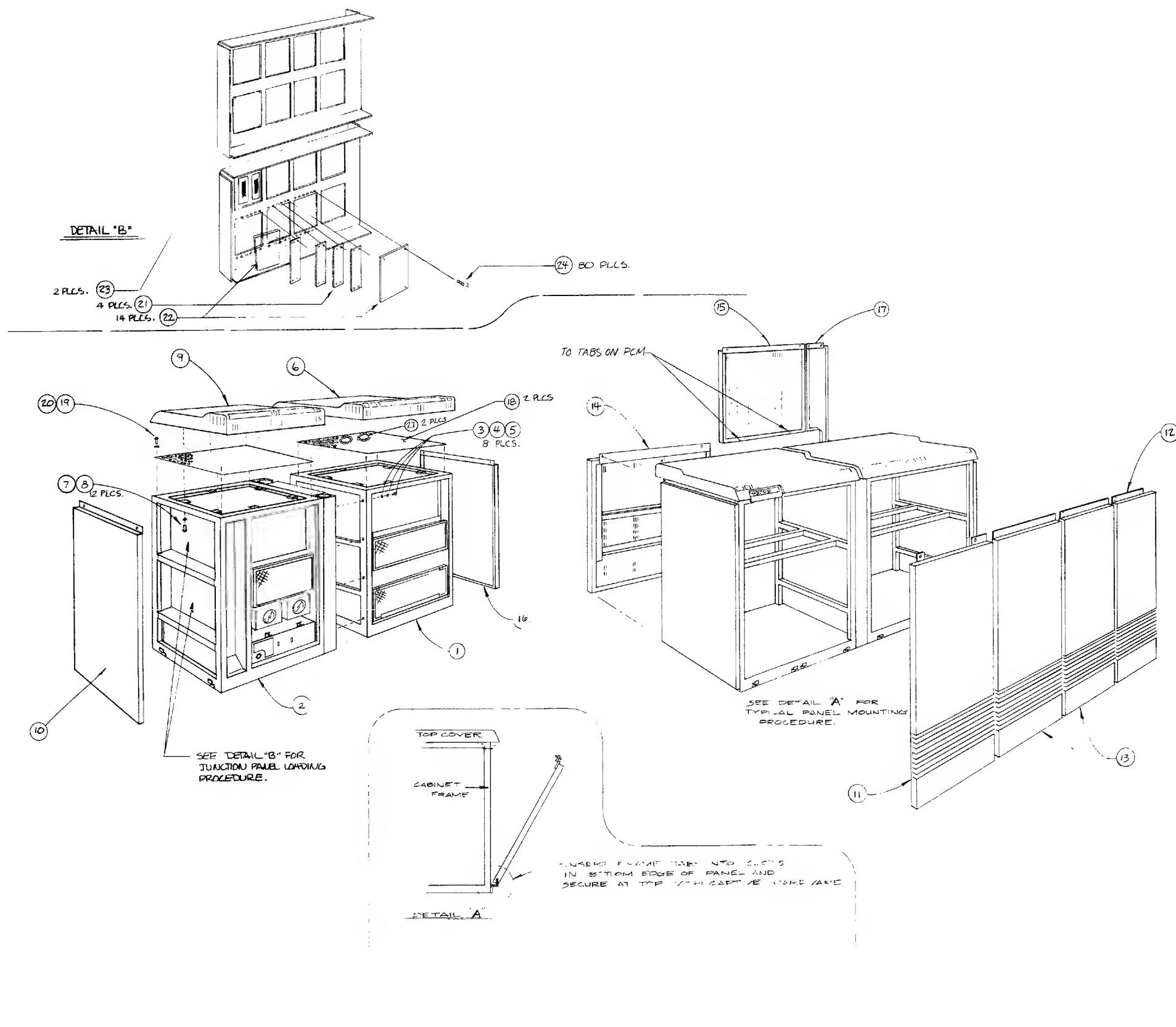
I 0-30140-60100-2

2 AS ISSUED

3 REV'D PER PCO 47-3745 EG/RP

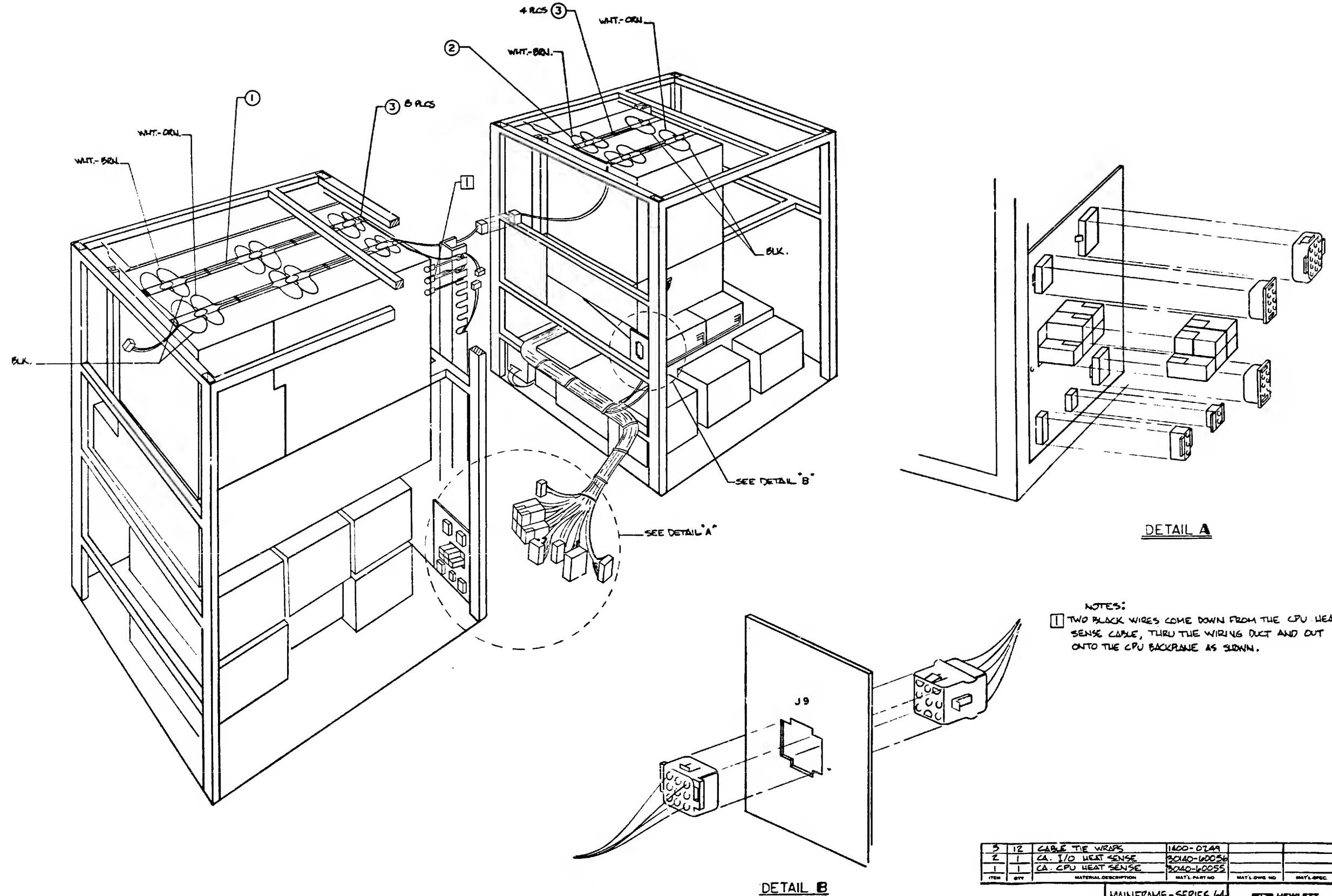
4 3845





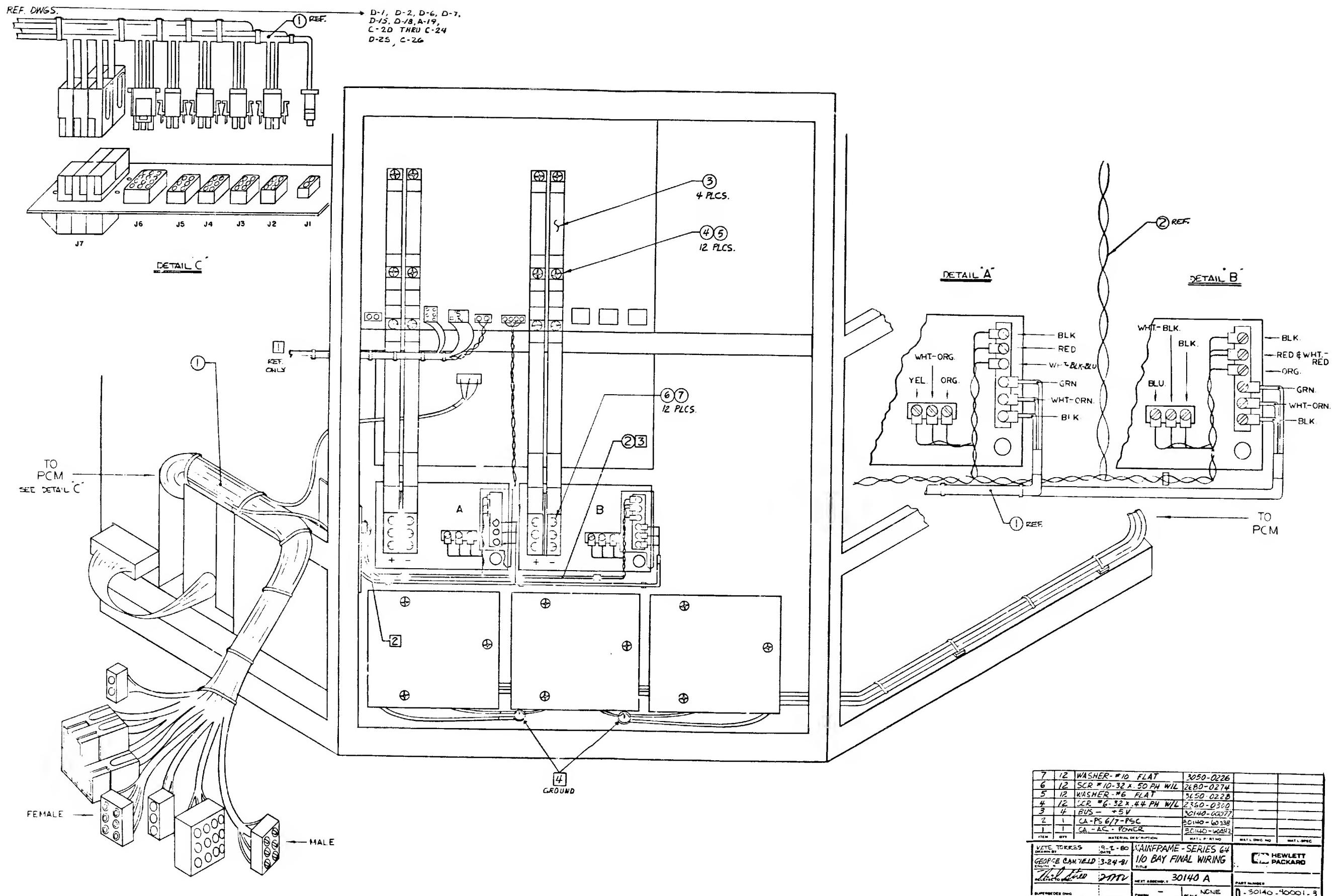
27	2	GROM MET	0400-0082		
26		DELETED			
25		DELETED			
24	80	SCR 6-32 X .38	2360-0359		
23	2	GIC ASSY' PLATE	30090-00017		
22	14	PLATE - FULL BLANK	30090-00021		
21	4	PLATE - 1/3 BLANK	30090-00016		
20	36	WASHER - # 10 FLAT	3050-0226		
19	36	SCR # 10-32 X .50 PH W/L	2680-0274		
18	2	SCREEN - ESD			
17	1	PANEL - EXT. REAR CABLE EXIT	20140-00002		
16	1	PANEL - EXT. - SIDE (R)	20140-00045		
15	1	PANEL - EXT. LT. REAR	30140-00050		
14	1	PANEL - EXT. RT. REAR	30140-00047		
13	2	PANEL - EXT. CENTER FT	30140-00042		
12	1	PANEL - EXT. RT. FRONT	30140-00038		
11	1	PANEL - EXT. LT. FRONT	30140-00039		
10	1	PANEL - EXT. SIDE (L)	30140-00068		
9	1	COVER - TOP I/O BAY	4040-1792		
8	12	WASHER .172 I.D. FLAT	3050-0199		
7	12	SCR 8-32 X .44 PH W/L	2510-0301		
6	1	COVER - TOP CPU BAY	4040-1791		
5	8	WASHER - FLAT 1/4	3050-0225		
4	6	LK W/1/4-20X1.50 HEX	2190-0092		
3	8	BOLTS 1/4-20X1.50 HEX	2940-0137		
2	1	ASSY' - I/O BAY	REF.	D-7	
1		ASSY' - CPU BAY	REF.	D-6	
ITEM	QTY	MATERIAL DESCRIPTION	MATL. PART NO	MATL. Dwg NO	MATL. SPEC

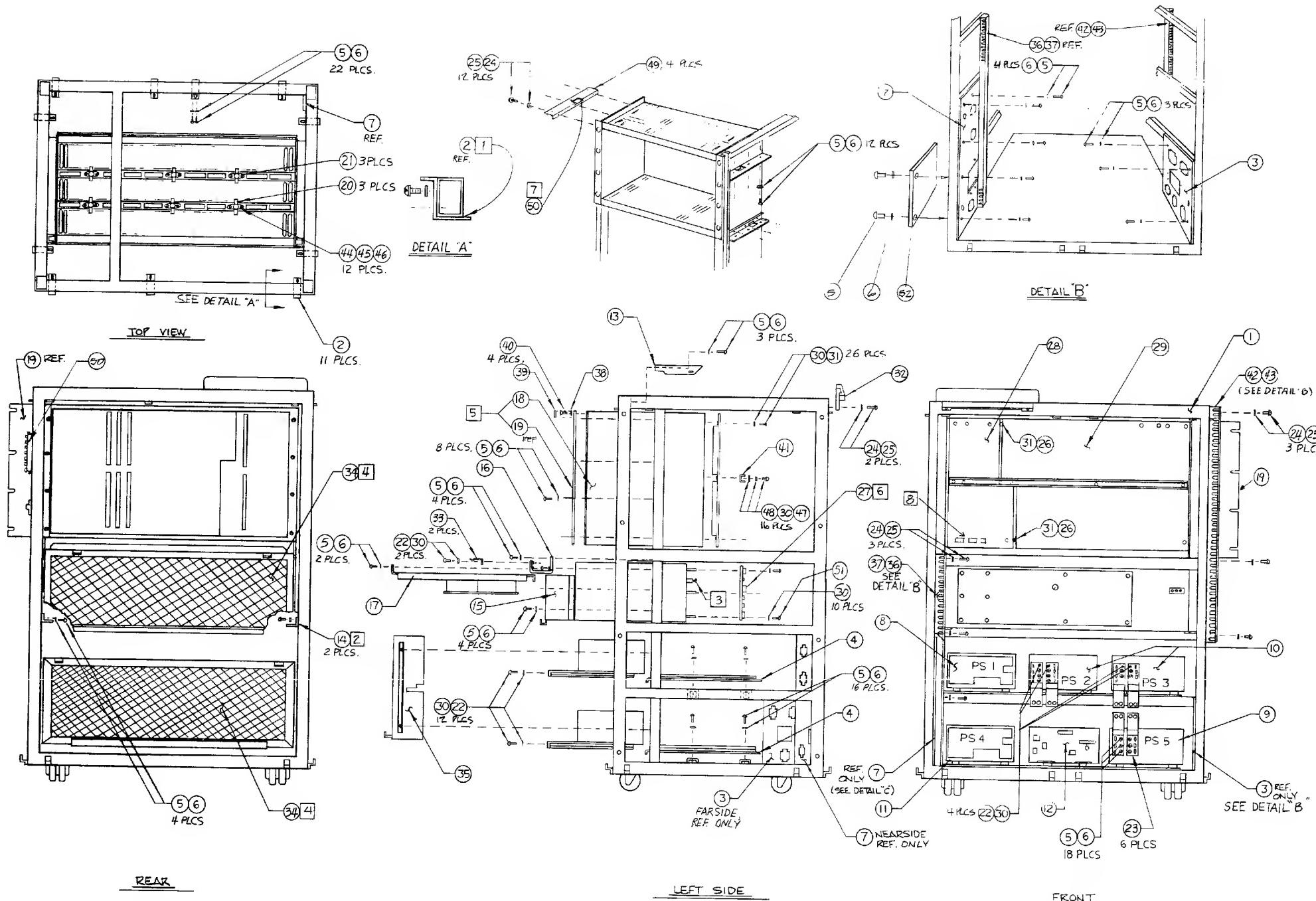
MAINFRAME - SERIES 64		 HEWLETT PACKARD PERM. FRNCE
TITLE	FINAL ASSEMBLY	
30140 A		PART NUMBER
NEXT ASSEMBLY		30140 - 90001 - 1
FINISH	SCALE	



3	12	CABLE TIE WRAPS	1400-0249		
Z	1	CA. I/O HEAT SENSE	3040-60056		
1	1	CA. CPU HEAT SENSE	3040-60055		
ITEM	QTY	MATERIAL DESCRIPTION	MATL. PART NO	MATL. QTY	MATL. SPEC

MAINFRAME - SERIES 64		HEWLETT PACKARD
TITLE: INTERSYSTEM CABLING		
NEXT ASSEMBLY	30140 A	PART NUMBER
FINISH	NTS	30140-90001-2



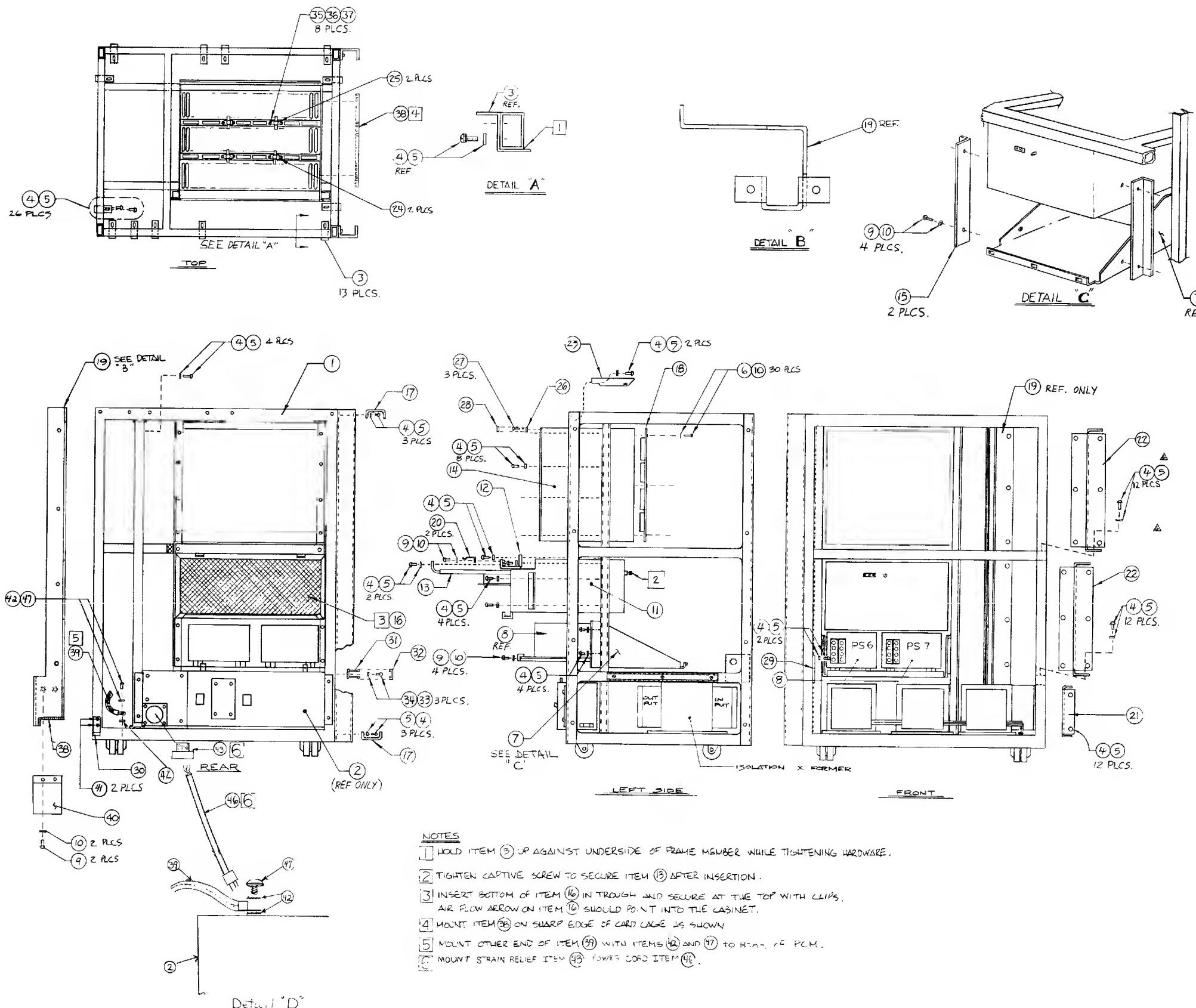


NOTES:

- 1 HOLD ITEM ② UP AGAINST UNDERSIDE OF FRAME MEMBER WHILE TIGHTENING HARDWARE.
- 2 INSTALL ITEM ⑭ BEFORE MOUNTING ITEM ⑮.
- 3 TIGHTEN CAPTIVE SCREW TO SECURE ITEM ⑯ AFTER INSERTION.
- 4 INSERT BOTTOM OF ITEM ⑯ IN TROUGH AND SECURE AT TOP WITH CLIPS. (ITEM ⑰)
- 5 AIR FLOW ARROW ON ITEM ⑯ SHOULD POINT INTO THE CABINET.
- 6 SECURE RIGHT SIDE OF ITEM ⑯ FIRST, THEN INSTALL ITEM ⑯ LEFT SIDE USING COMMON HARDWARE.
- 7 INSTALL PSC-PCB - ITEM ⑰ ON ESD GROUND MAT.
- 8 INSTALL ITEM ⑯ ONLY ON THE TWO TOP BRACKET CUTOUTS AND EDGE OF CARD CAGE, AND ON SWITCH MTG PLATE ITEM ⑱.
- 9 AFTER ATTACHING THE MEMORY BACKPLANE ⑲, VERIFY THAT A GAP (APPROX. .05" THK X .5" OF DIM.) EXISTS BETWEEN THE CONN. PINS AND THE BACKPLANE.

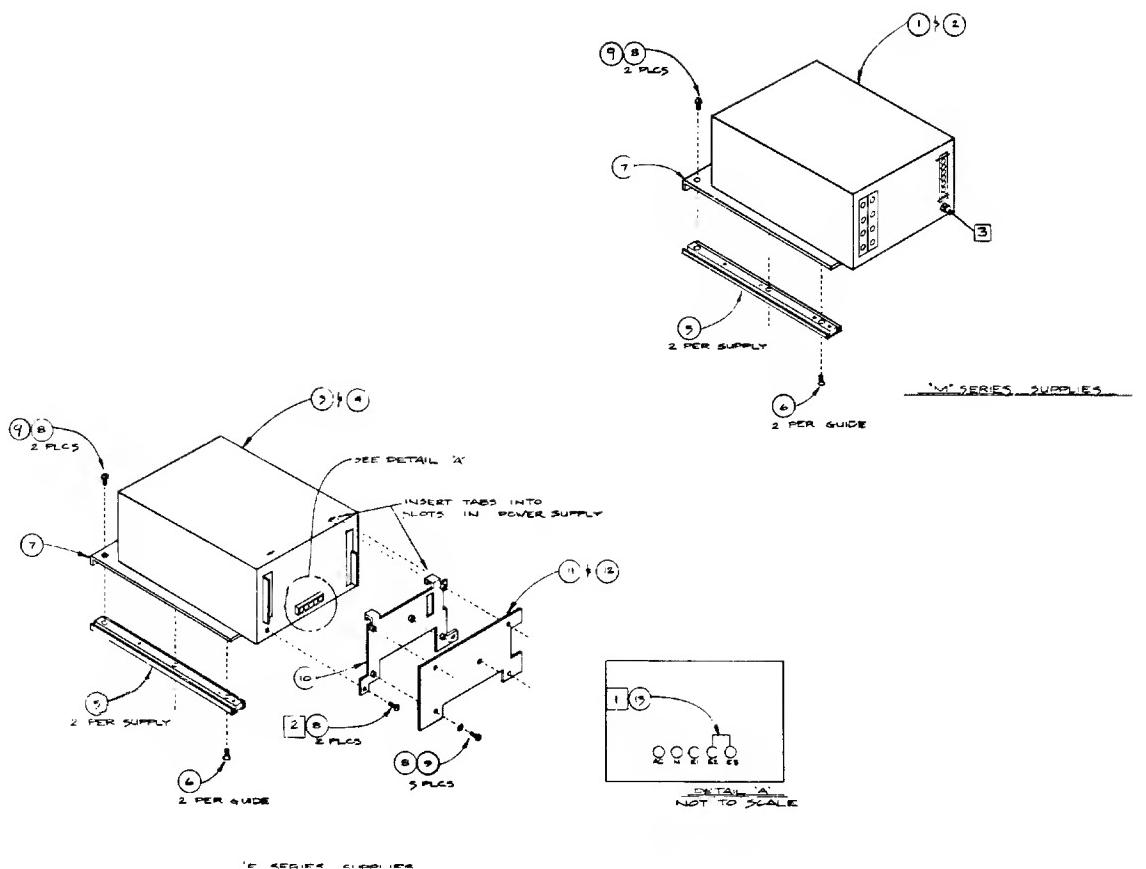
ITEM	QTY	MATERIAL DESCRIPTION	MATL PART NO	MATL L.D.WG NO	MATL SPEC
53	1	LABLE TIE MOUNT	1400-07B6		
52	1	COVER PLATE	30140-00103		
51	10	SCR 6-32 X .75 PH	2360-0205		
50	1	AIR GROMMET-CHANNEL	0400-0082		
49	4	BRKT - C.C. GND	30140-00042		
48	26	WASHER - LK. # 6	2190-0851		
47	16	SCR 6-32 X .62 PH	2360-0205		
46	12	WASHER FLAT # 4	3050-0229		
45	12	LKWASHER # 4 HEL.	2190-0108		
44	12	SCR. 4-40 X 312 L PH POZI	2200-0141		
43	1	COVER-WIRING DUCT, CPU BP	30140-00087		
42	1	WIRING DUCT, CPU BACKPLN	30140-00086		
41	1	STIFFENER - CENTER C.C.	30140-00078		
40	4	SCR 4-40 X 312 L FH	2200-0166		
39	1	LABEL-IDENT, CPU CC	7121-1939		
38	1	PLATE-CPU CC LABEL MTG.	30140-00080		
37	1	COVER-WIRING DUCT, MEM BP	30140-00005		
36	1	WIRING DUCT - MEM. BACKPLN.	30140-00084		
35	1	ASS'Y-PENUM, P. SUPPLIES	REF.	D-9	
34	2	FILTER-AIR, 9X29	3150-0389		
33	2	CLIP - SPRING	1600-1087		
32	1	ASS'Y-SYSTEM DISPLAY PANEL	REF.	D-8	
31	28	SCR. - 6-32 X .438 L PU W/L	2360-0300		
30	70	WASHER # 6 FLAT	3050-0226		
29	1	PCA-CPU BACKPLANE	30140-60018		
28	1	PCA-MEMORY BACKPLANE	30140-60020		
27	1	PCA - POWER SYSTEM CONTROL	30140-60017		
26	2	WASHER - # 6 BRS	3050-0066		
25	20	SCR 8-32X .44 PH W/L	2510-0301		
24	26	WASHER - FLAT # 8	3050-0139		
23	6	POWER STRAP - P. S.	30140-00076		
22	18	SCR 6-32 X .375 LG PH W/L	2360-0359		
21	3	SWITCH-THERM, 122°F CL	3103-0083		
20	3	SWITCH-THERM, 104°F CL	3103-0089		
19	1	PLATE-SWITCH MTG.	30140-00089		
18	1	CARD CAGE - 36 SLOT	7101-0582		
17	1	ASS'Y-FAN TRAY, CPU	REF.	D-10	
16	1	DUCT - CABLE, CPU BAY	30140-00014		
15	1	ASS'Y-PENUM, CPU	REF.	D-11	
14	2	SUPPORT RAIL-CPU PENUM	30140-00020		
13	1	PAN - DRIP, CPU	4040-1875		
12	1	ASS'Y-BATTERY MODULE	REF.	D-14	
11	1	ASS'Y-POWER SUPPLY UNITS	REF.	D-15	63902F
10	1	ASS'Y-POWER SUPPLY UNITS	REF.	D-15	62971M
9	1	ASS'Y-POWER SUPPLY UNIT	REF.	D-15	62970M
8	1	ASS'Y-POWER SUPPLY UNITS	REF.	D-15	63901F
7	1	PLATE-CONNECTOR-CPU/LH	30140-00072		
6	120	WASHER - FLAT # 10 SS	3050-0226		
5	160	SCR 10-32 X .50 PH W/L	2680-0274		
4	2	ASS'Y-CPU POWER SUPPLY TRAY	REF.	D-16	
3	1	PLATE-CONNECTOR CFU/RH	30140-00008		
2	11	BRKT - MTG TOP COVERS	3040-0001		
1	1	FRAME - C.P.U.	7101-0580		

ITEM	QTY	MATERIAL DESCRIPTION	MATL PART NO	MATL L.D.WG NO	MATL SPEC
MAINFRAME - SERIES 64 MECHANICAL ASSY.					
TITLE		HP HEWLETT PACKARD			
NEXT ASSEMBLY	30140A	PART NUMBER			
FINISH	-	SCALE	-		D-30140-90001-6



ITEM	QTY	MATERIAL DESCRIPTION	MATERIAL PART NO.	MATERIAL SPEC.
47	2	SCREW	2680-0099	
46	1	POWER CORD	30140-60090	
45		DELETED		
44		DELETED		
43	1	STRAIN RELIEF	0100-1140	
42	4	WASHER #10 STAR	Z190-0070	
41	2	SCR 10-32X.60 PH	2680-0106	
40	1	PLATE - ANGLE	30140-00101	
39	1	GND STRAP	30070-60062	
38	1	A/R GROMMET-CHANNEL	0400-0082	
37	8	WASHER-FLAT #4	3050-0229	
36	8	LK WASHER - #4 HELICAL	2190-0108	
35	8	SCR 4-40 X .312 PH POZI	2200-0141	
34	3	WASHER-FLAT #8	3050-0139	
33	3	SCR 8-32 X .44 PH W/L	2510-0301	
32	1	COVER-WIRING DUCT, 1/0 BAY	30140-00083	
31	1	WIRING DUCT, 1/0 BAY	30140-00082	
30	1	BRKT-MTG. CABLE PANEL	30140-00073	
29	1	PLATE-CONN. I/O BAY	30140-00071	
28	1	LABEL-IDENT, 1/0 CC	7121-1940	
27	3	SCR 4-40 X .312 FH	2200-0166	
26	1	PLATE-MTG. LABEL 1/0	30140-00081	
25	2	SWITCH-THERM 12E FCL	3103-0088	
24	2	SWITCH-THERM 10E FCL	3103-0089	
23	1	FAN-DRIP 1/0 BAY	4040-1874	
22	2	JUNCTION PANEL	20140-00022	
21	1	JUNCTION PANEL BLANK	30140-00023	
20	2	CLIP-SPRING	1600-1087	
19	1	SUPPORT JUNCTION PANEL	30140-00024	
18	1	PCA-DUAL 1/0 BACKPLANE	30140-60021	
17	2	CHANNEL-RFL, TOP/BOTTOM	30140-00005	
16	1	AIR FILTER-PLATINUM	5150-0330	
15	2	SUPPORT - P.S. TRAY	30140-00021	
14	1	CARD CAGE - 24 SLOT	7101-0583	
13	1	ASSY-FANTRAY 1/0 PLN	RFF	D-12
12	1	DUCT, CABLE - 1/0	30140-00019	
11	1	ASSY-1/0 CC	REF.	D-13
10	1	WASHER #6 FLAT	3050-0228	
9	10	SCR 6-32 X .375 W/L	2560-0359	
8	2	ASSY-POWER SUP. UNIT	REF.	D-15
7	1	ASSY-POWER SUP. UNIT	REF.	D-17
6	30	SCR 6-32 X .44 PH W/L	2360-0300	
5	2	WASHER #10 FLAT	3050-0226	
4	14	SCR 10-32 X .50 PH W/L	2680-0274	
3	12	BRACKET-MTG. CORD	30140-0001	
2	2	POWER CONTROL MOD	REF.	
1	1	ASSY-1/0 FRAME X FORMER	REF.	D-18

ITEM	QTY	MATERIAL DESCRIPTION	MATERIAL PART NO.	MATERIAL SPEC.
MAINFRAME - SERIES 64				
MECHANICAL ASSY-				
TITLE				
1/0 BAY				
PERM. PRINT				
30140 A				
NEXT ASSEMBLY				
FINISH				
NONE				
PART NUMBER				
D 30140-90001-7				

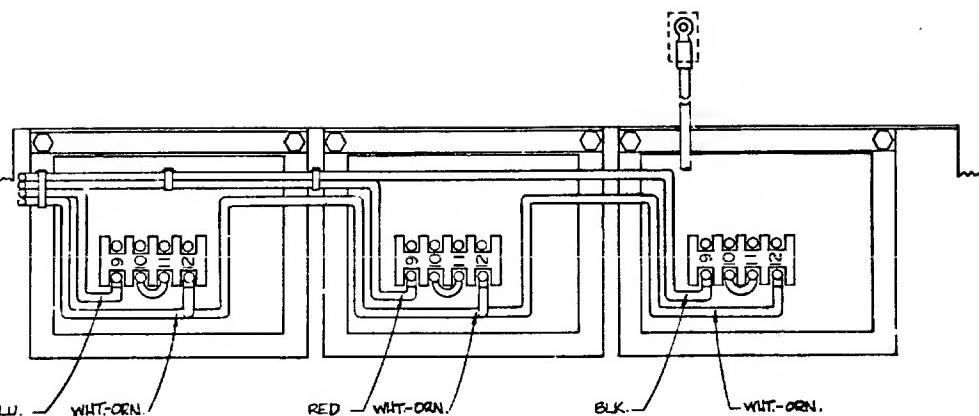


110 SERIES SUPPLIES

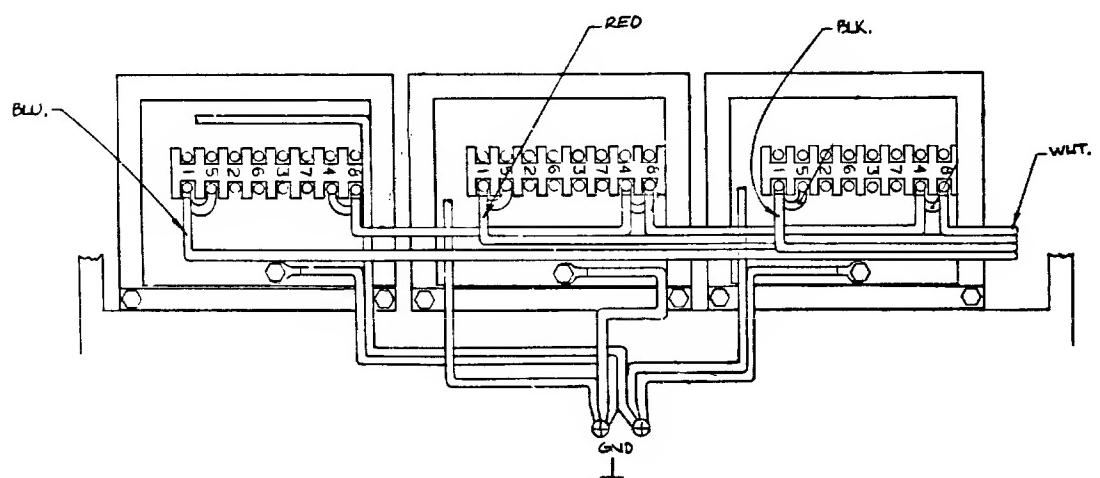
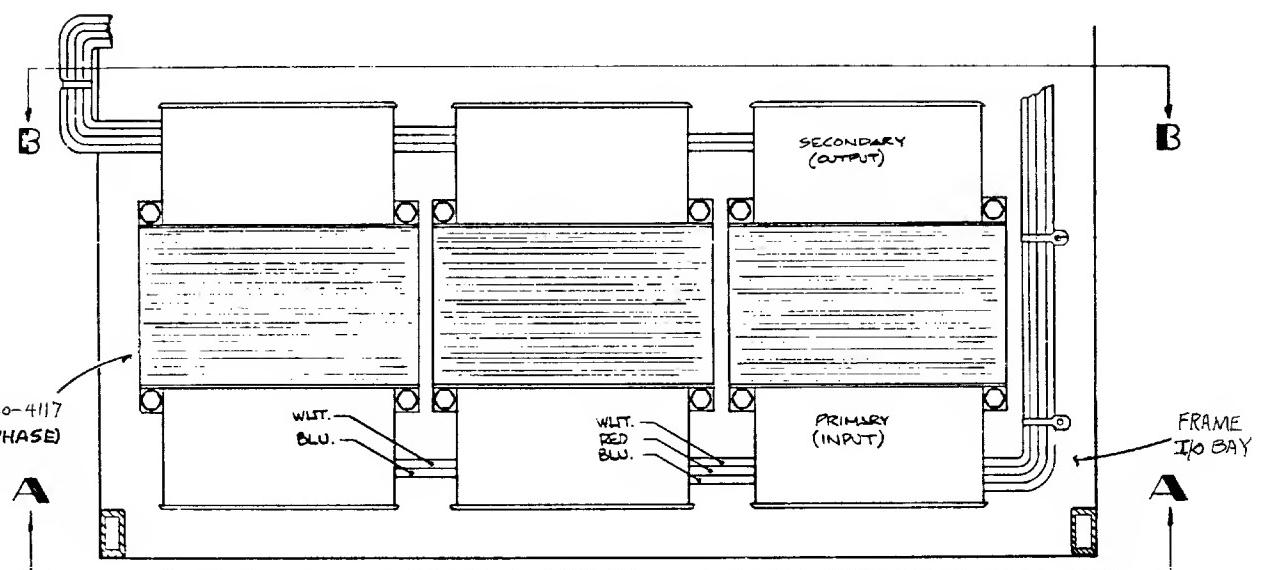
- NOTES:
- [] ITEM (5) MUST GO BETWEEN E2 + E3.
 - [] REMOVE THE FLATHEAD SCREWS WHICH COVER WITH THE POWER SUPPLY AND REPLACE WITH ITEM (3) AS SHOWN.
 - [] REMOVE SCREW (16) ON P70 - P71

ITEM	DESCRIPTION	QTY	REF.
19	TERMINAL	0360-0263	
18	PCB - POWER DIST. G29	20440-60015	
11	PCB - POWER DIST. P28	20440-60024	
10	BRACKET - PCB MOUNT	20440-00040	
9	WASHER .06 FLAT	20500-0228	
8	SCREW 6-32 X .16 TH	20440-0259	
6	SCREW 10-32 X .60 FH	20440-0106	
7	HANDLE - POWER SUPPLY	20440-00013	
5	GUIDE - P2	20440-00001	
4	DC POWER SUPPLY - NJ	43702F	
3	DC POWER SUPPLY - NJ	63901F	
2	DC POWER SUPPLY - NJ	62971M	
1	DC POWER SUPPLY - NJ	62970M	
REV.	INTERNAL DESCRIPTION	WHT. PART NO.	WHT. SPEC.

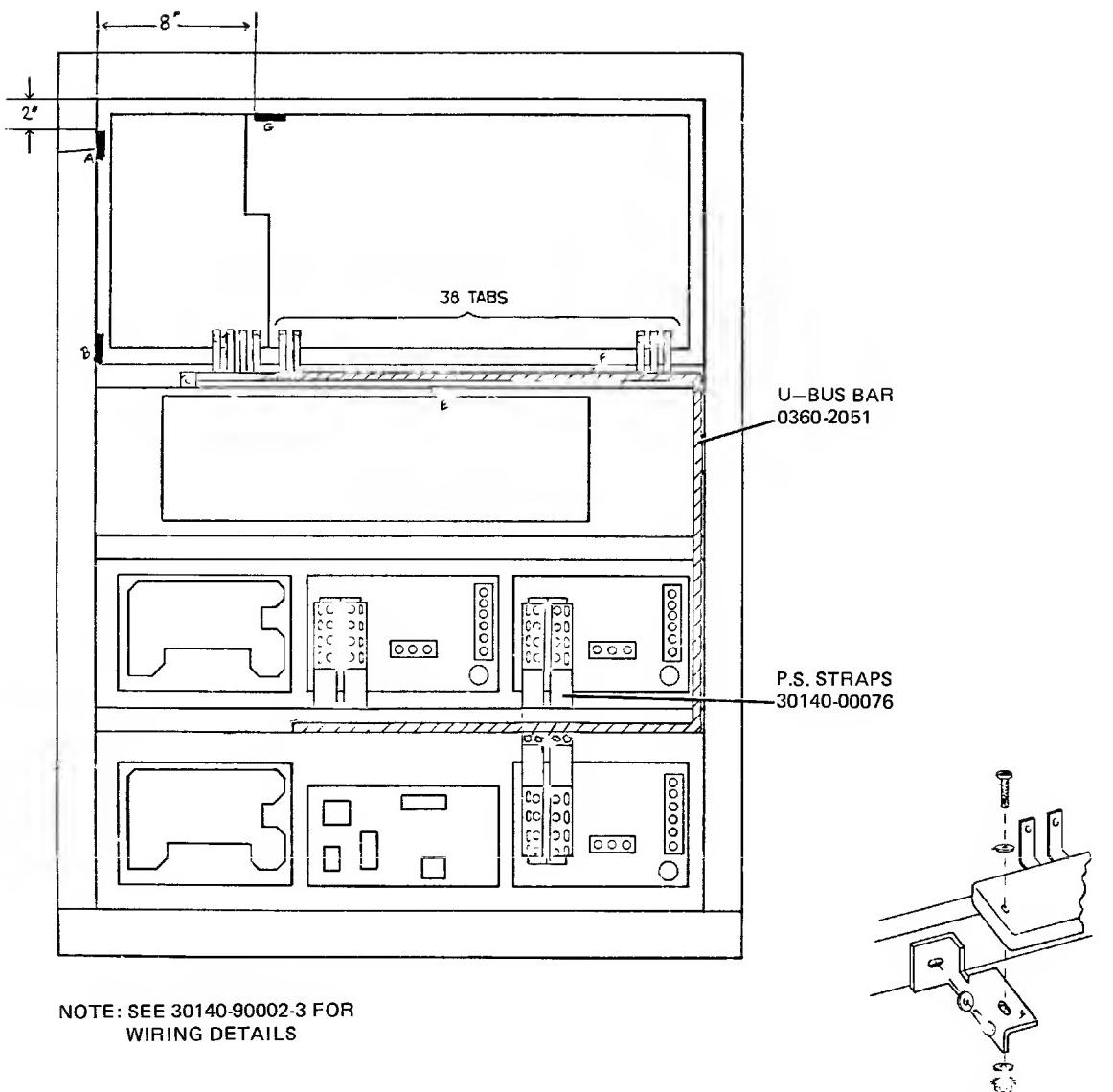
MAINFRAME - SERIES 64 ASSY. POWER SUPPLY UNITS		HEWLETT PACKARD
ITEM	30140A	ITEM
LAST ASSEMBLY		PART NUMBER
PRINT	SCALE 1/4 - 1	30140-90001-15



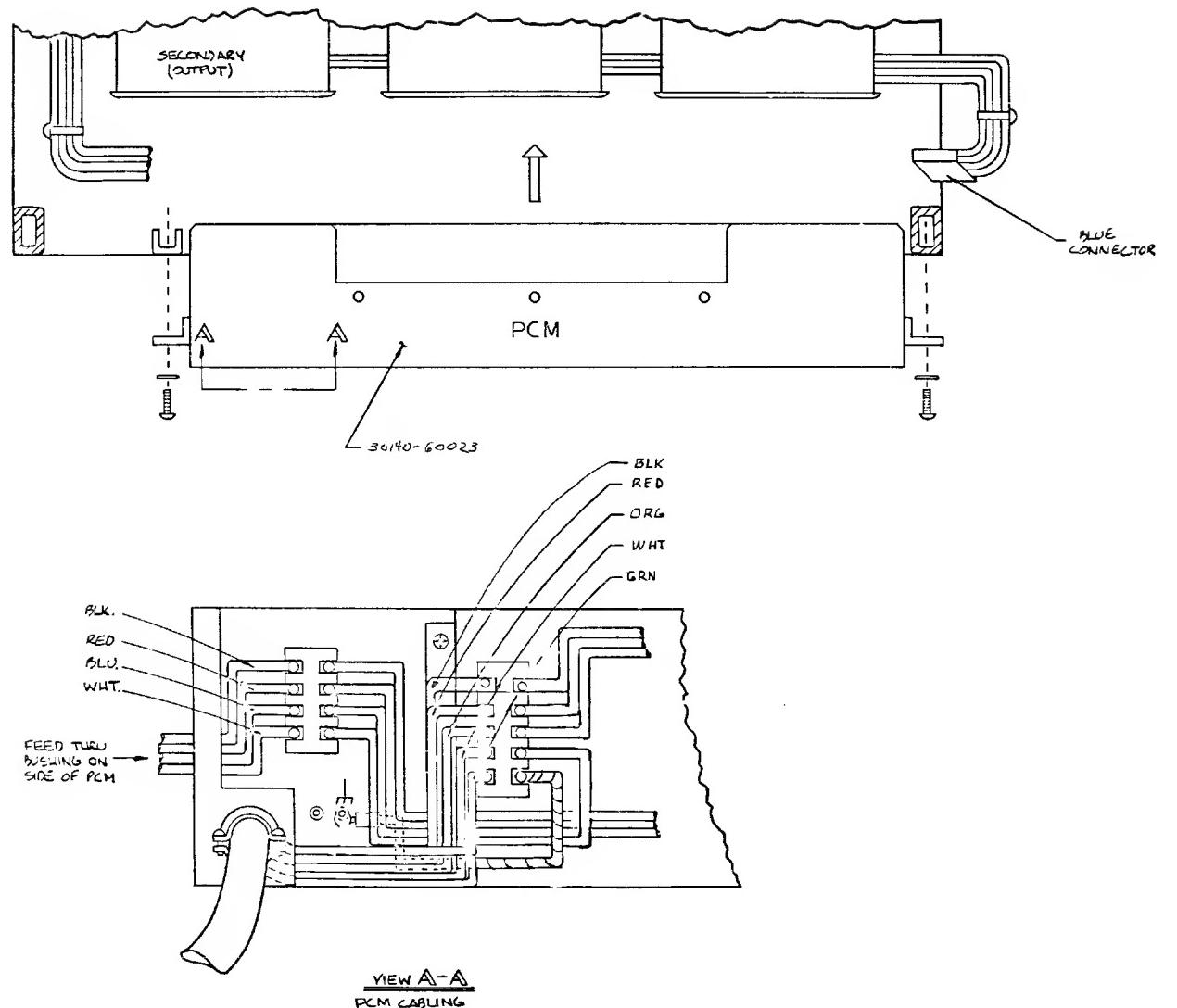
NOTE: STRAPPING DEPENDS ON INPUT VOLTAGE.



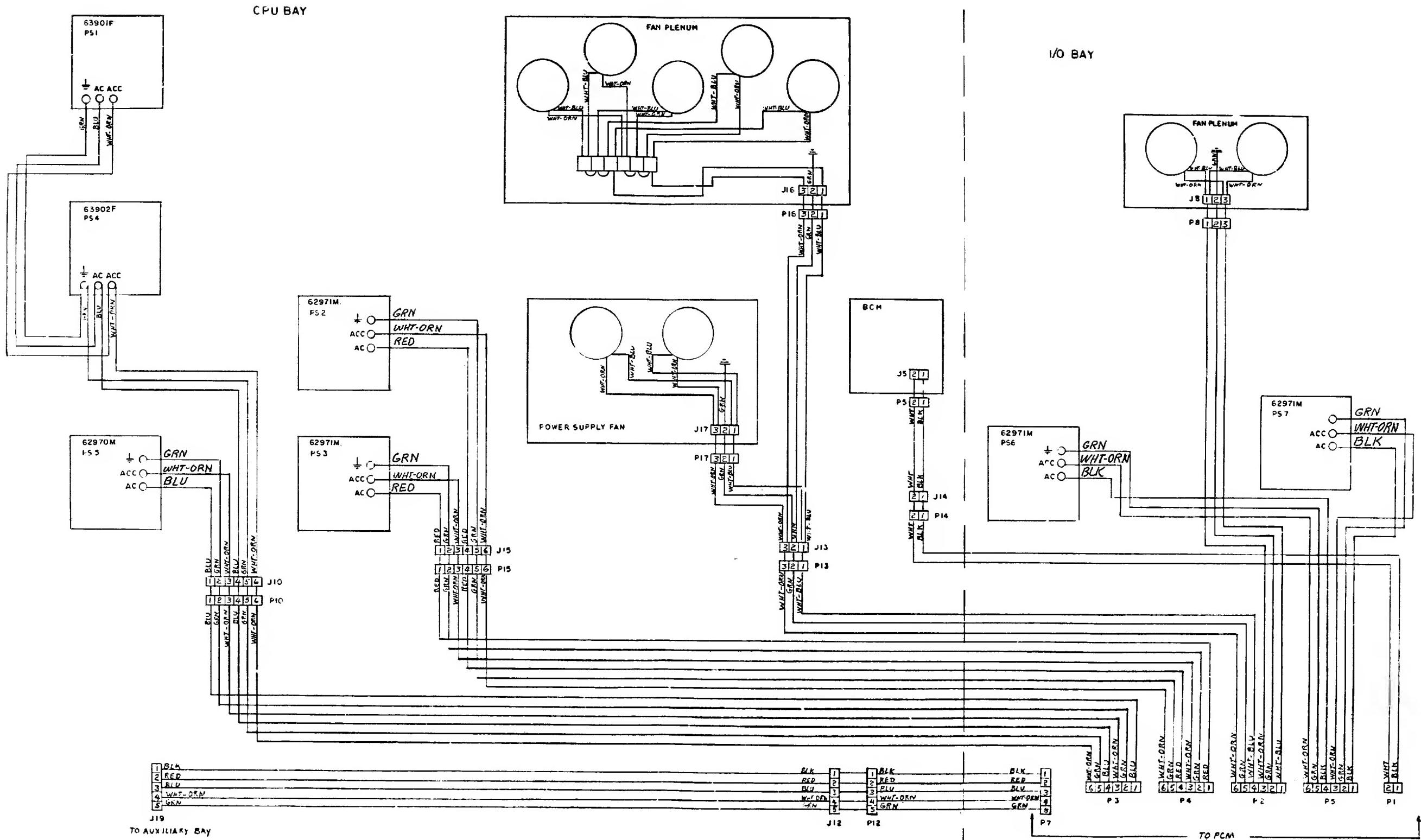
MAINFRAME - SERIES 64 PCM & ISO, X-FORMER	HEWLETT PACKARD
TITLE 30140 A	
NEXT ASSEMBLY	PART NUMBER
FINISH -	0 30140-90001-18



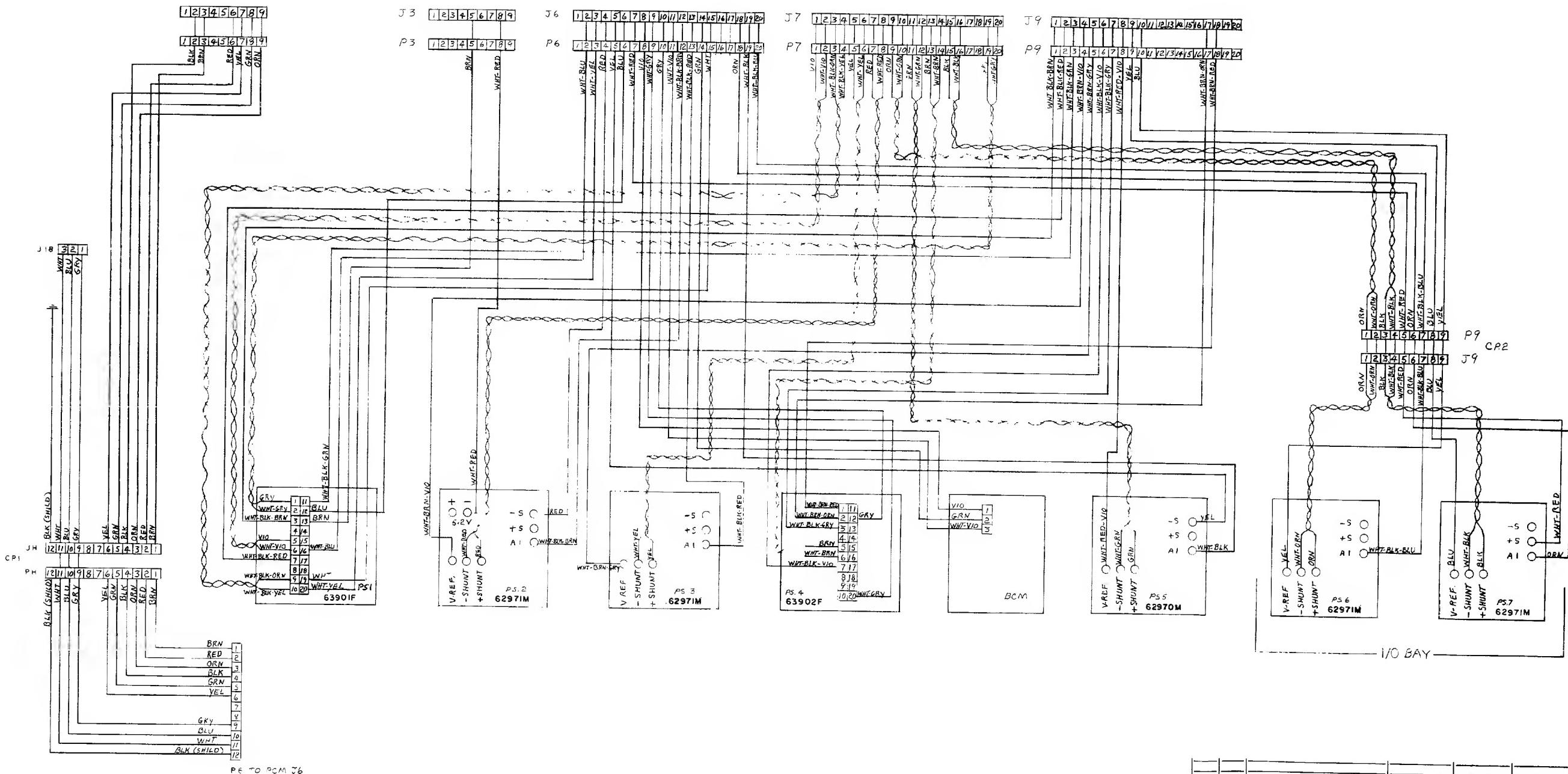
CPU BAY WIRING	HEWLETT PACKARD
STEP # 4	
30140A	
NEXT ASSEMBLY	PART NUMBER
30140	P - 30140 - 90001 - 23
FINISH	SCALE
NONE	



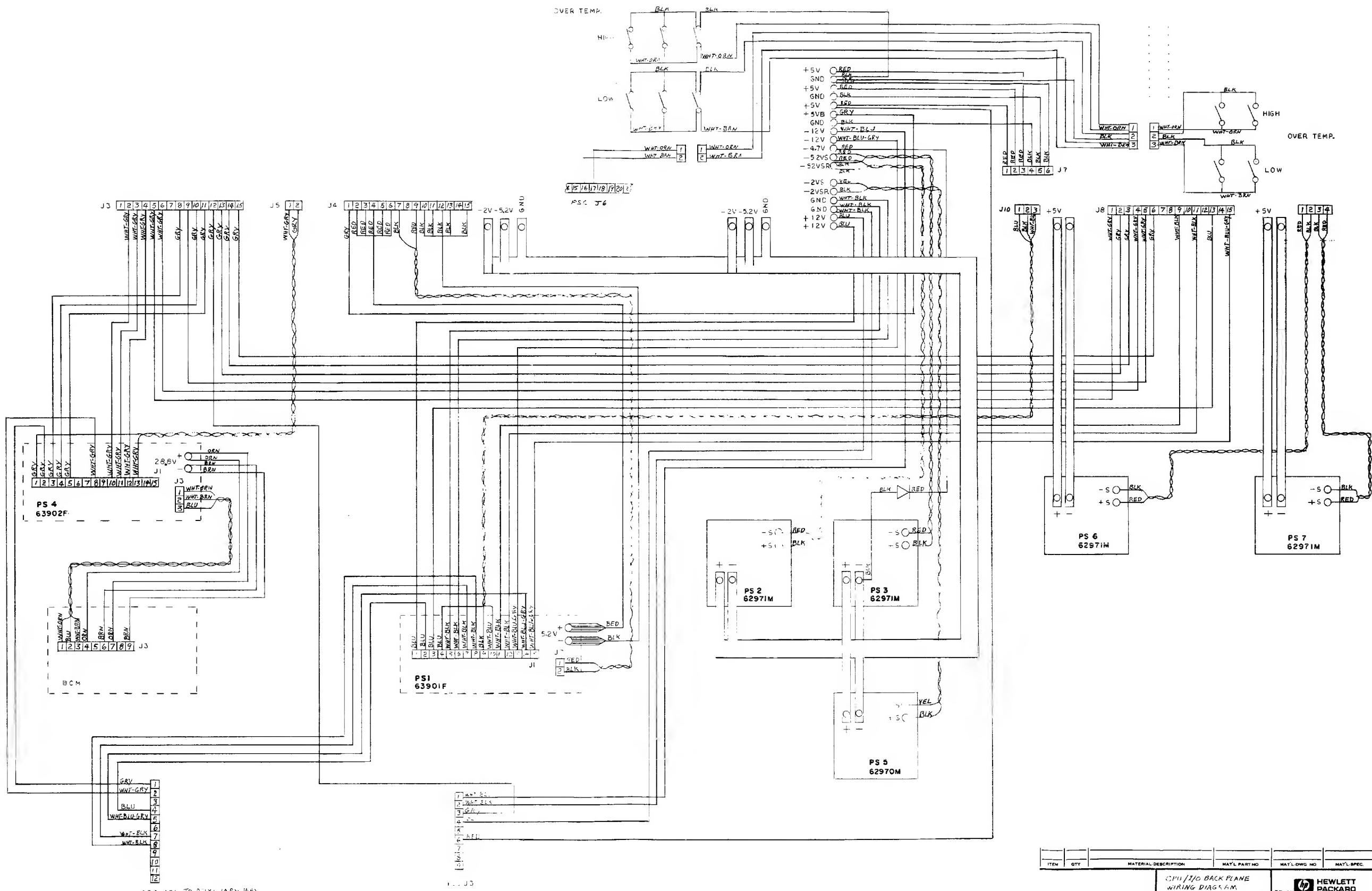
PCM MOUNTING #	HEWLETT PACKARD
TITLE	FINAL WIRING
NEXT ASSEMBLY	30140A
FINISH	NONE
SCALE	1:1
PART NUMBER	2-30140-90001-24



ITEM	QTY	MATERIAL DESCRIPTION	MATERIAL PART NO.	MATERIAL NO.	MATERIAL SPEC.
AC WIRING DIAGRAM	1	HEWLETT PACKARD	FE-		
TITLE	30140A				
NEXT ASSEMBLY					
PART NUMBER	-				
FINISH	L	SCALE	L	D -30140 - 90002 - 1	



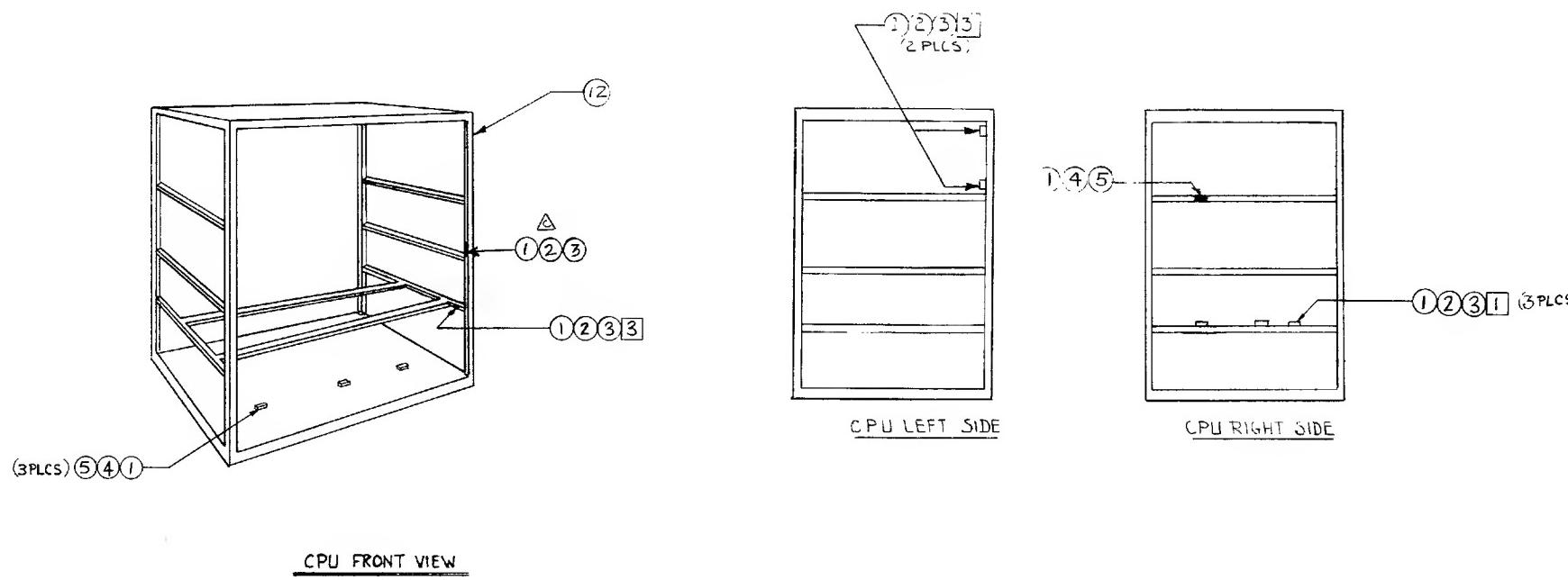
ITEM	QTY	MATERIAL DESCRIPTION	MATL. PART NO.	MATL. DWG. NO.	MATL. SPEC.
POWER SYSTEM CONTROL WIRING DIAGRAM TITLE					
PERM. PRINT					
NEXT ASSEMBLY	30140A				
FINISH					
SCALE					
D - 30140 - 90002 - 2					



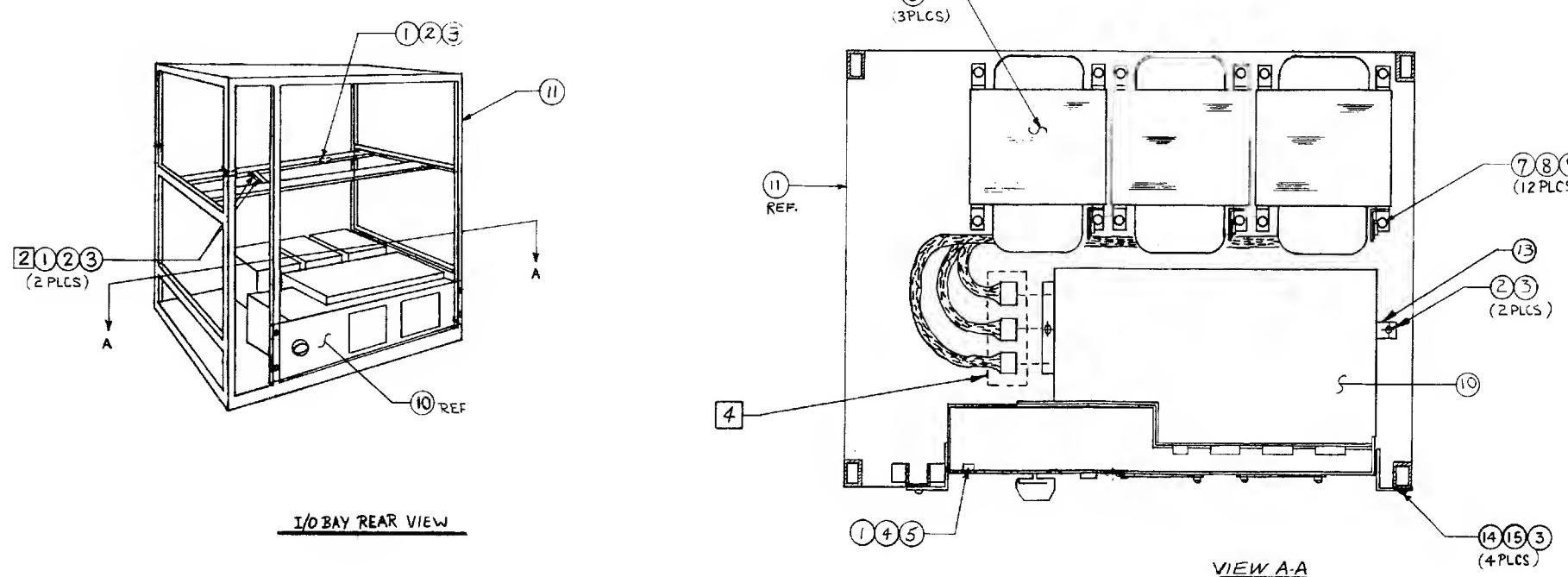
REF DWGS:
D-2, D-3, D-4,
L-5, L-6, D-7
L-8, D-9 PARUE

ENGINEERING RESPONSIBILITY												SEPIA			I-30140-90052-1	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
18	17	19	19	20	21	22		33	34	38	42	43	47			
								63	90	93	25					

ITEM	REVISIONS	APPROVED	DATE
A	AS ISSUED	JX/JP	1-26-63
B	REVISED PER PCO 47-3781	JX/JP	2-2-63
C	REV'D ITEMS 1-5 QTY'S: 47-3883	MN/JA	1-26-63
D	REV'D ITEMS 1-5 QTY'S: 47-3869	JW/JP	1-26-63
E	Changed HD 26 on ITEMS 11+12: 47-3882	JW/JP	1-26-63
F	ITEM 14: ADDED 15-16 QTY'S; DELETED ITEM 14; PCO 47-3915	MN/JA	1-26-63
G	ADDED ITEMS 14 & 15; ITEM 2 QTY. WAS 16; PER PCO 47-3944	CN/JP	7/30/64



CPU FRONT VIEW



I/O BAY REAR VIEW

ITEM	QTY	MATERIAL DESCRIPTION	MATL. PART NO.	MATL. L/DING NO.	MATL. SPEC.
15	4	WASHER SPLIT LOCK #10	2190-0034		
14	4	SCR 10-32 X .38 PH	2680-0099		
13	1	BRACKET - AC UNIT	30140-00020		
12	1	FRAME - CPH	30140-60138		
11	1	FRAME - I/O	30140-60132		
10	1	AC UNIT - 208 VAC 60 HZ	2050-1693		
9	12	WASHER - 5/16. FLAT	3050-0641		
8	12	WASHER-LOCK 5/16 HEX	2190-0432		
7	12	BOLT 5/16 - 18X6.3L HEX	2940-0214		
6	3	FERRD TRANSFORMER	9100 - 4308		
5	5	WASHER FLAT # 8	3050-0139		
4	5	SCR.# 8-32	2510-0301		
3	16	WASHER FLAT # 10	3050-0226		
2	12	SCR. # 10-32	2680-0274		
1	15	CABLE TIE - MOUNT	1400-0786		

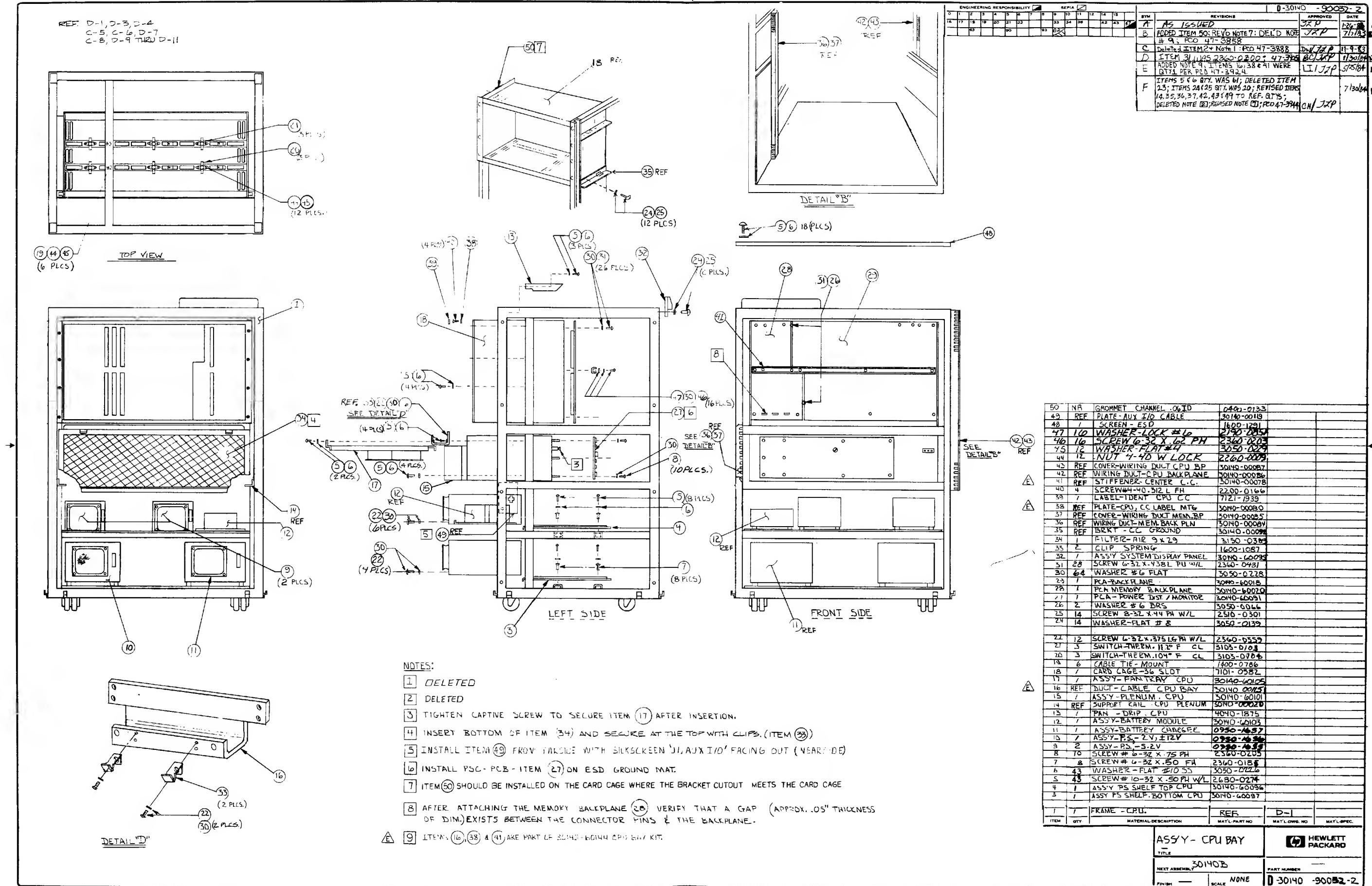
ASS'Y - AC UNIT, CABLE
MOUNT, TRANSFORMERS

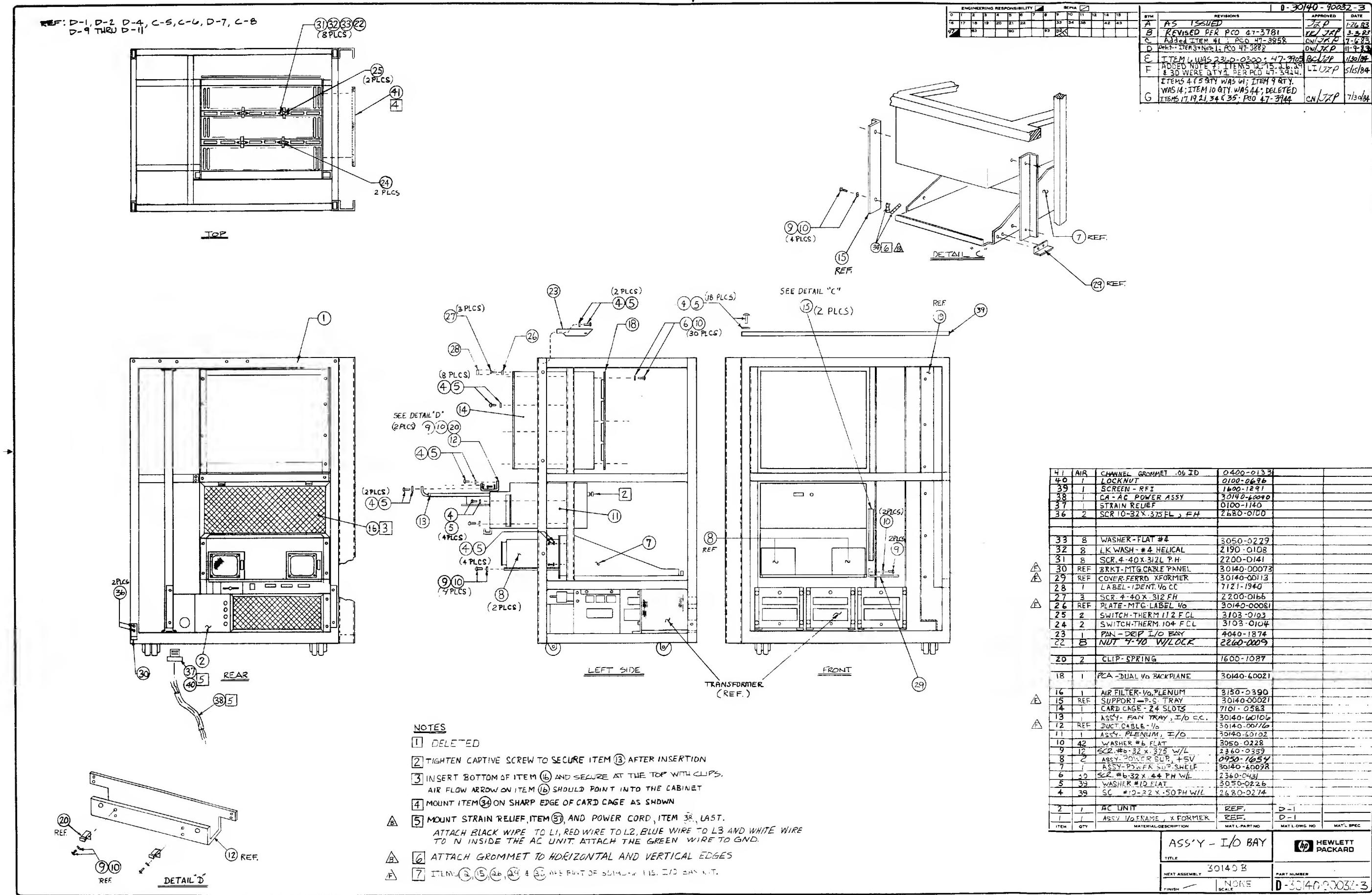
 HEWLETT
PACKARD

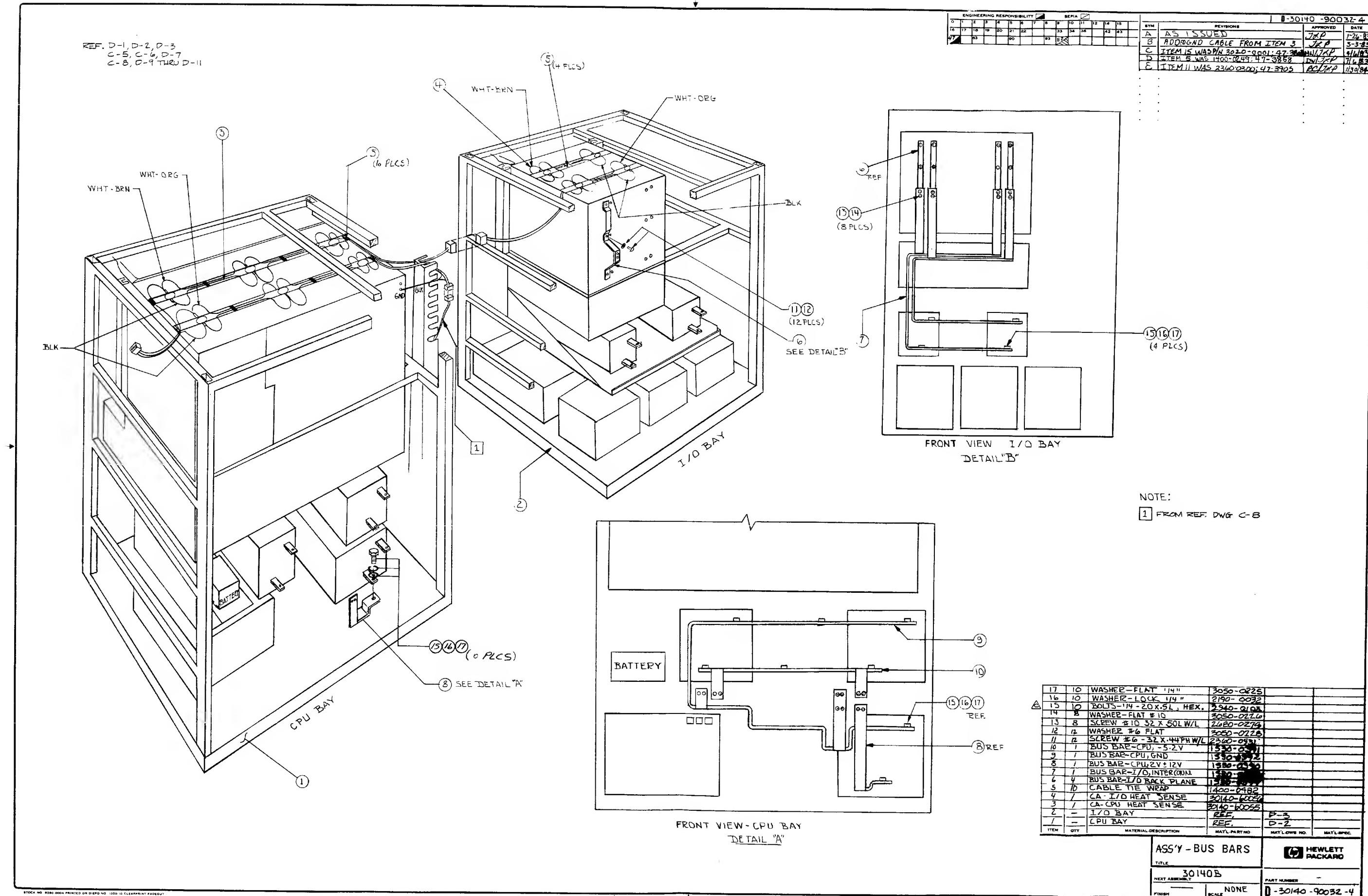
NEXT ASSEMBLY 30140 B
FINISH — | SCALE NONE

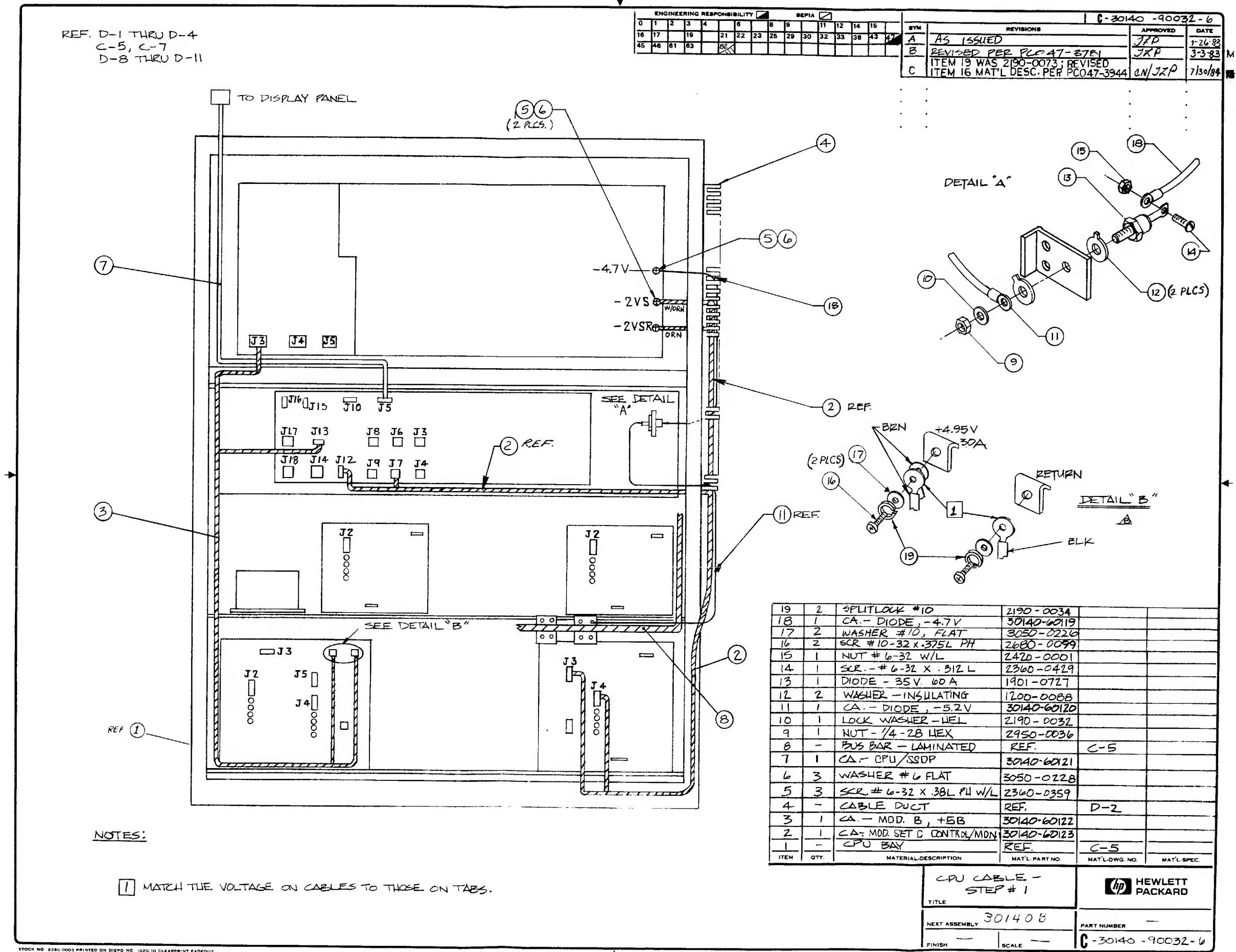
PART NUMBER

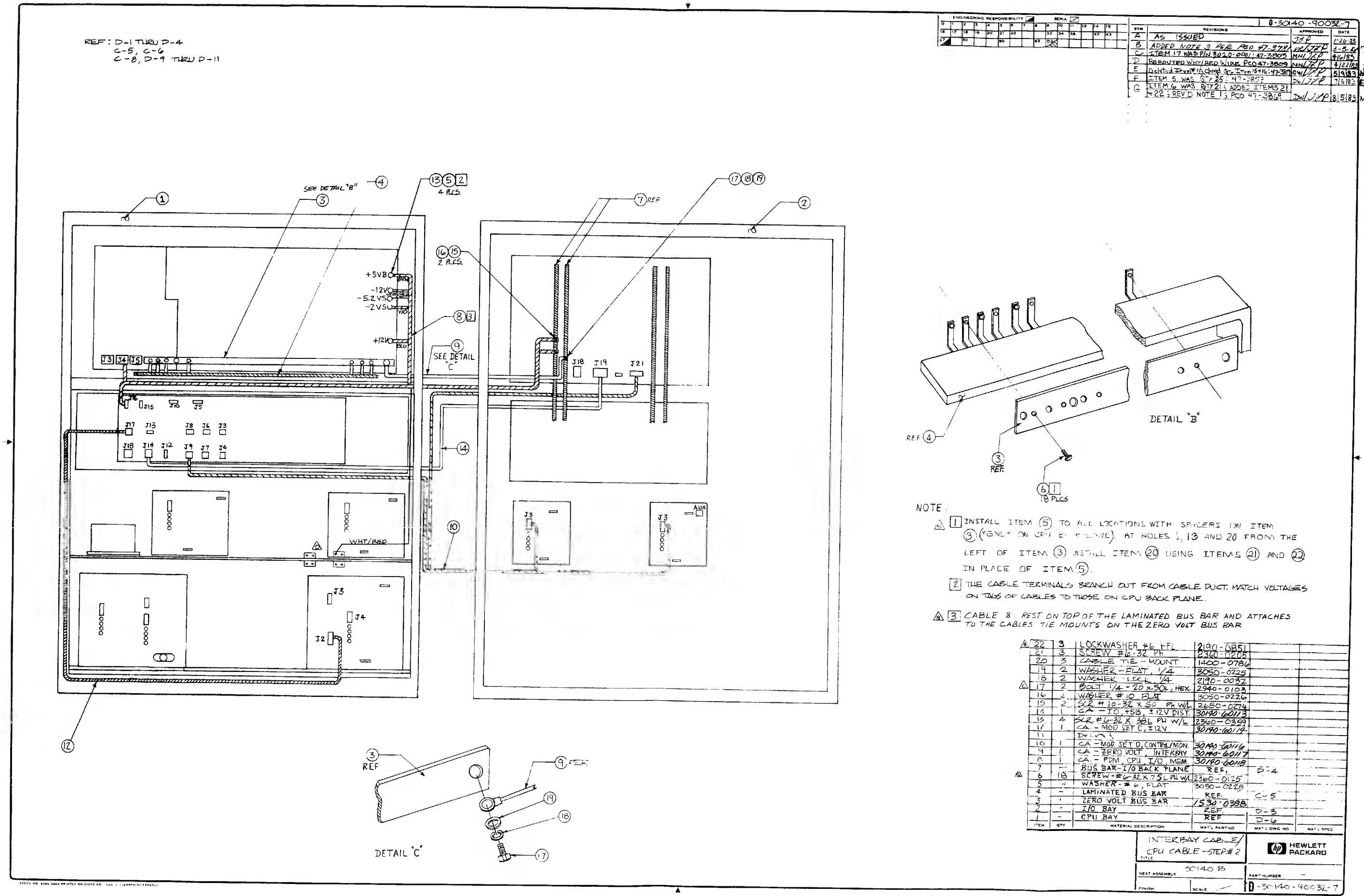
PART NUMBER
D-30140-90032-1





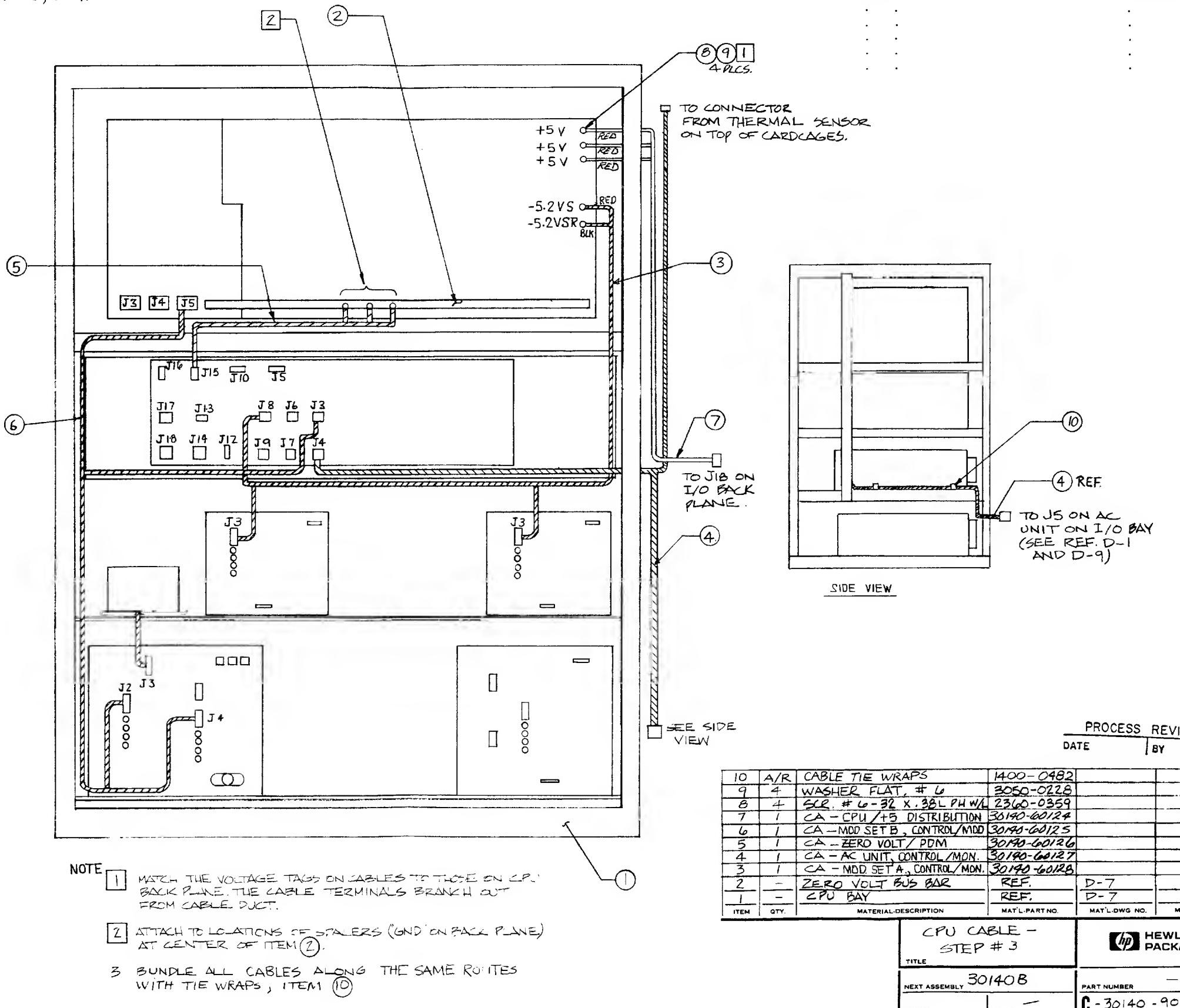




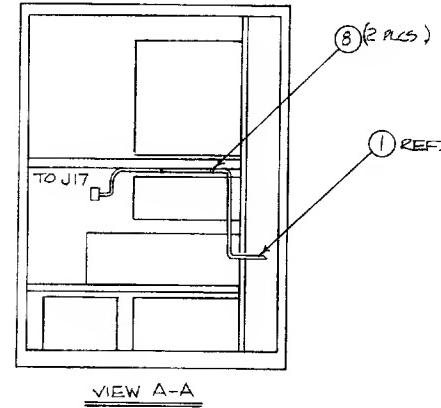
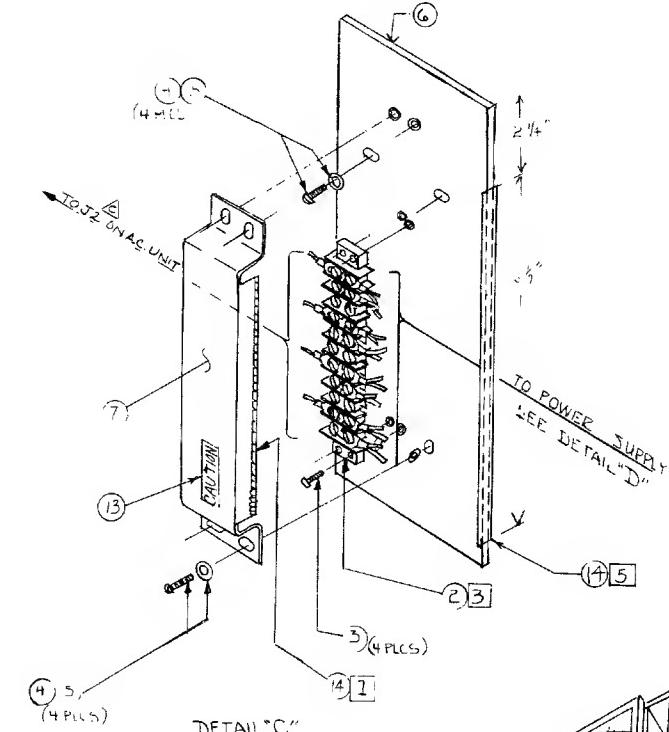
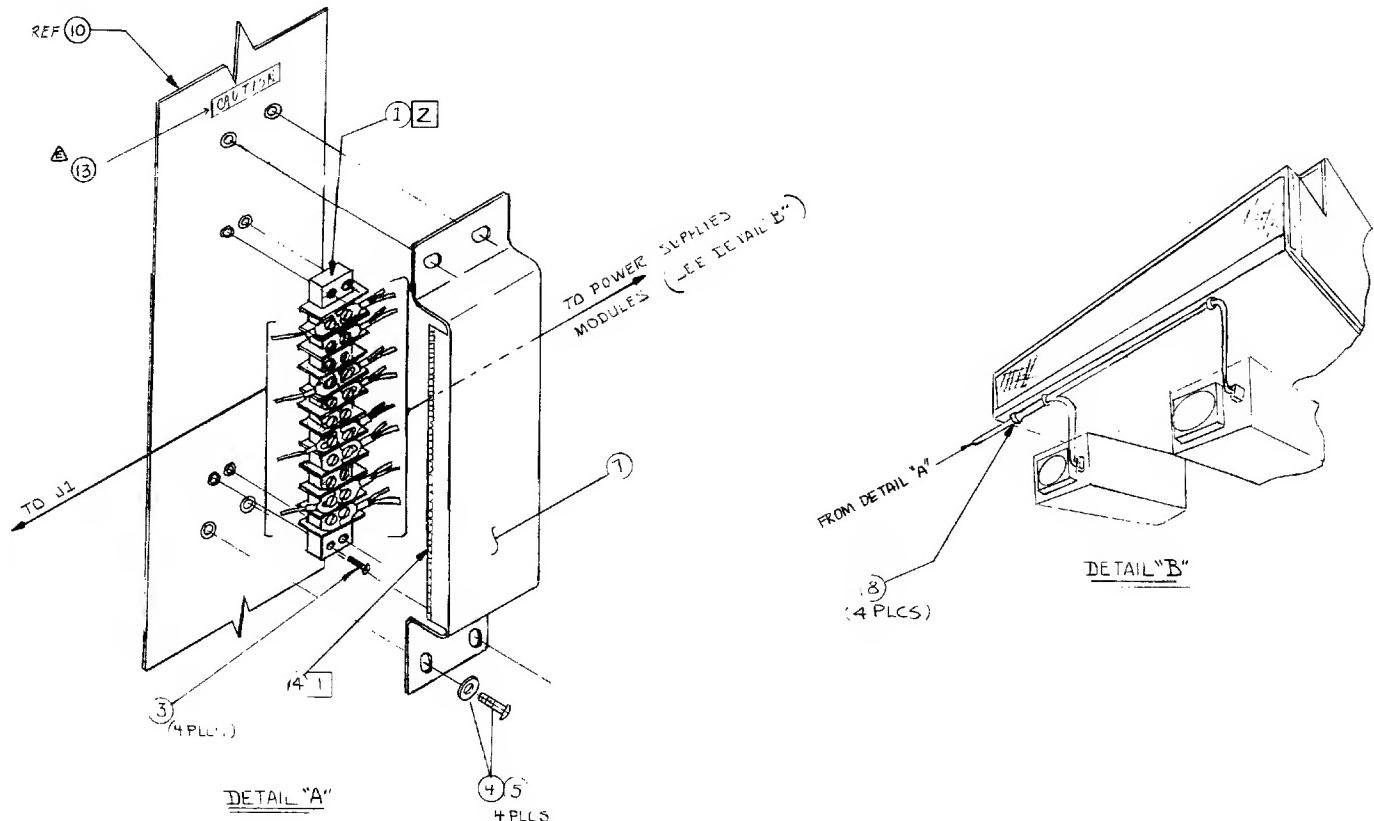
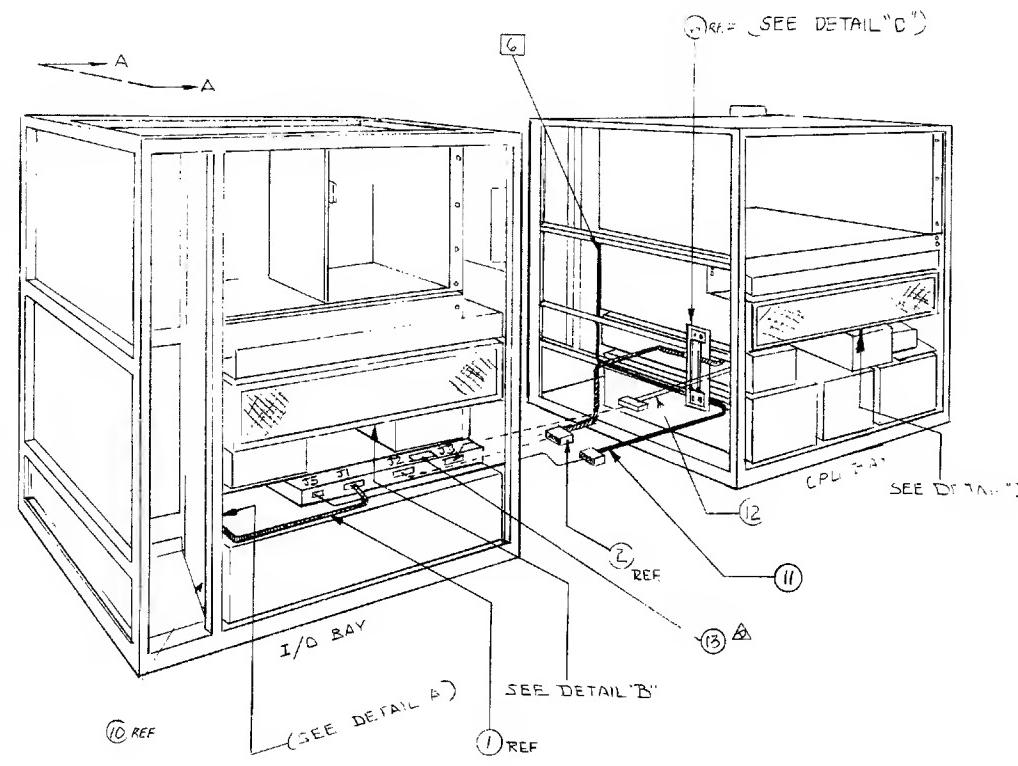


ENGINEERING RESPONSIBILITY																SEPIA		C-30140 - 90032-8											
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	SYM	REVISIONS	APPROVED	DATE										
16	17	18			21	22	23	25	29	30	32	33	35	43	45	A	AS ISSUED	J-1P	1-26-83	M									
					61	63										B	ITEM 10 WAS 1400-0449: 47-3858	DW/JP	7-16-83	L									

REF. D-1 THRU D-4,
C-5, C-6, D-7
D-9, D-10, D-11



REF. DWG: D-1 TURJ D-4
C-5, C-6 D-7
E-8, D-10, D-11



VIEW A-A

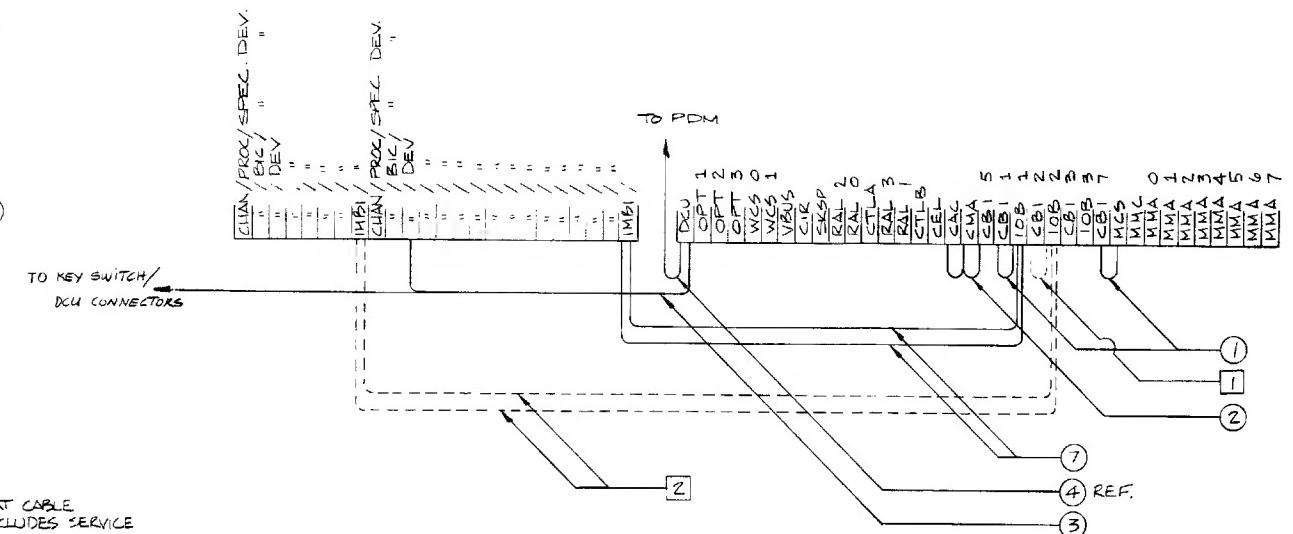
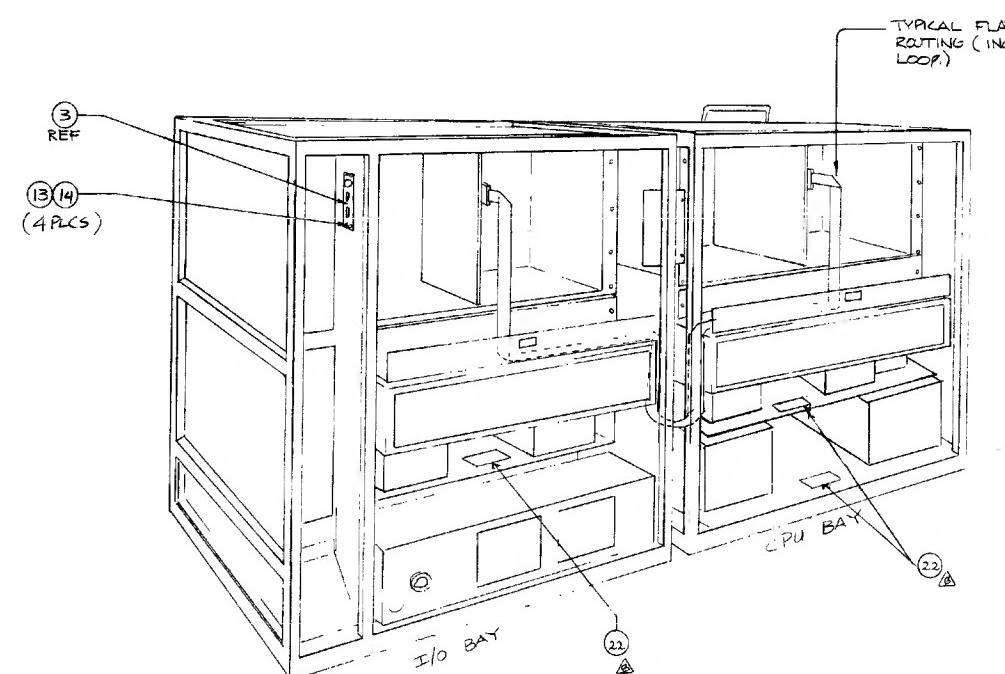
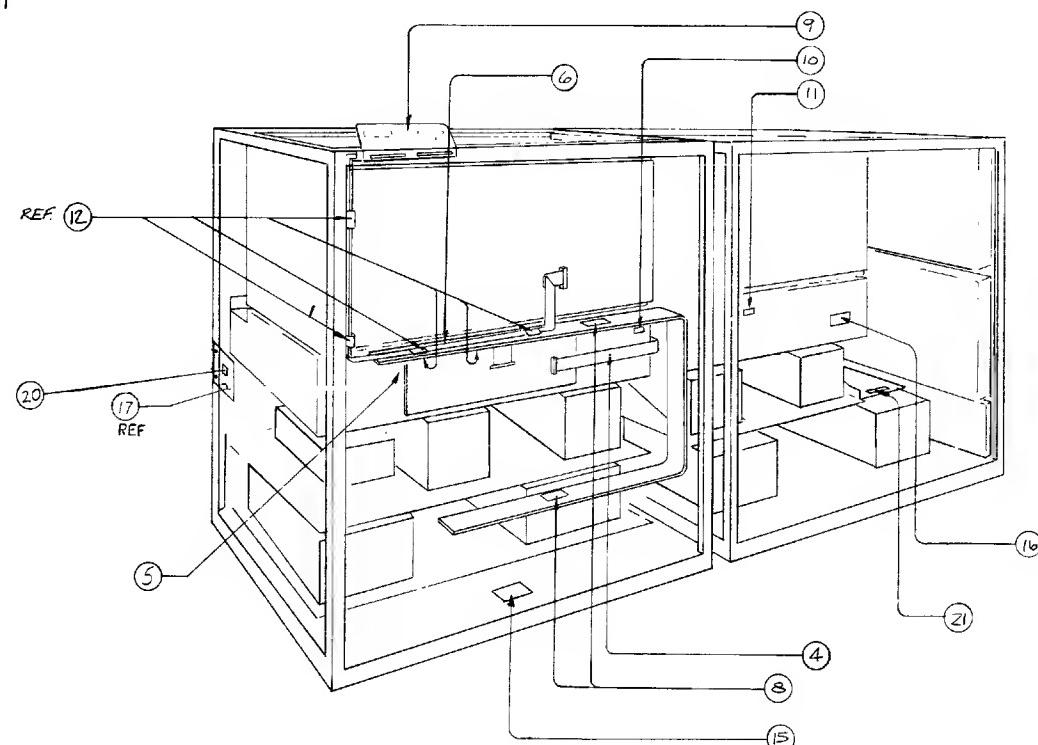
NOTES:

- 1** INSTALL ITEM **(9)** TO BOTH EDGES OF ITEM **(7)**.
 - 2** THE LONGEST CABLE (3 WIRES) GOES TO U17, FRONT SIDE OF PLENUM. SEE VIEW A-A.
 - 3** THE LONGEST CABLE (3 WIRES) RUNS ALONG ITEM **(11)**. USE ITEM **(8)** TO TIE THE CABLE TO VERTICAL FACE OF THE FRAME MEMBER.
 - 4** ATTACH TO CONNECTOR PLATE - 30140-00119
 - 5** INSTALL ITEM **(9)** TO THE EDGE OF ITEM **(6)** AS SHOWN.
 - 6** TIWRAP ITEM **(2)** AT THIS POINT AND THEN CONNECT TO JIB.
 - 7** ITEM **(6)** IS PART OF 30140-60144, CPU BAY KIT & ITEM **(7)** IS PART OF 30140-60145, I/O BAY KIT

14	AIR	GROMMET CHANNEL, O/L/O	0400-0133	
13	3	CABLE, CAPACITOR DISCHARGE	30140-10201	- - - - -
12	1	CA - HIGH VOLTAGE A/D I/O	30140-60129	
11	-	CA - AC UNIT, CONTROL/MON.	REF	D-6
10	-	SUPPORT - JUNCTION PANEL	REF	D-3
9	ATR	GROMMET CHANNEL	0400-00822	
8	11	CABLE-TIE, WEAP	1400-0482	
7	REF	COVER-TERMINAL BLOCK	30140-00117	
6	REF	PLATE-TERMINAL BLOCK	30140-00111	
5	12	WASHER #8, FLAT	3050-0153	
4	12	SCREW #8-32X .575 PH W/L	2510-0307	
3	8	SCREW - #6-32X .50 PH	2360-0171	
2	7	CABLE - HIGH VOLTAGE, CPU	30140-00111	
1	/	CABLE - HIGH VOLTAGE, I/O	30140-60112	
ITEM	QTY	MATERIAL DESCRIPTION	ITEM NUMBER	MANUFACTURER

INTER-BAY CABLING / HIGH VOLTAGE DISTRIBUTION		HEWLETT PACKARD
30140B		PART NUMBER
ASSEMBLY		D-30140-90032-9
SH	SCALE	NONE

REF. DWGS: D-1 THRU D-4
C-5, C-6, D-7, C-8
D-9, D-11



NOTES:

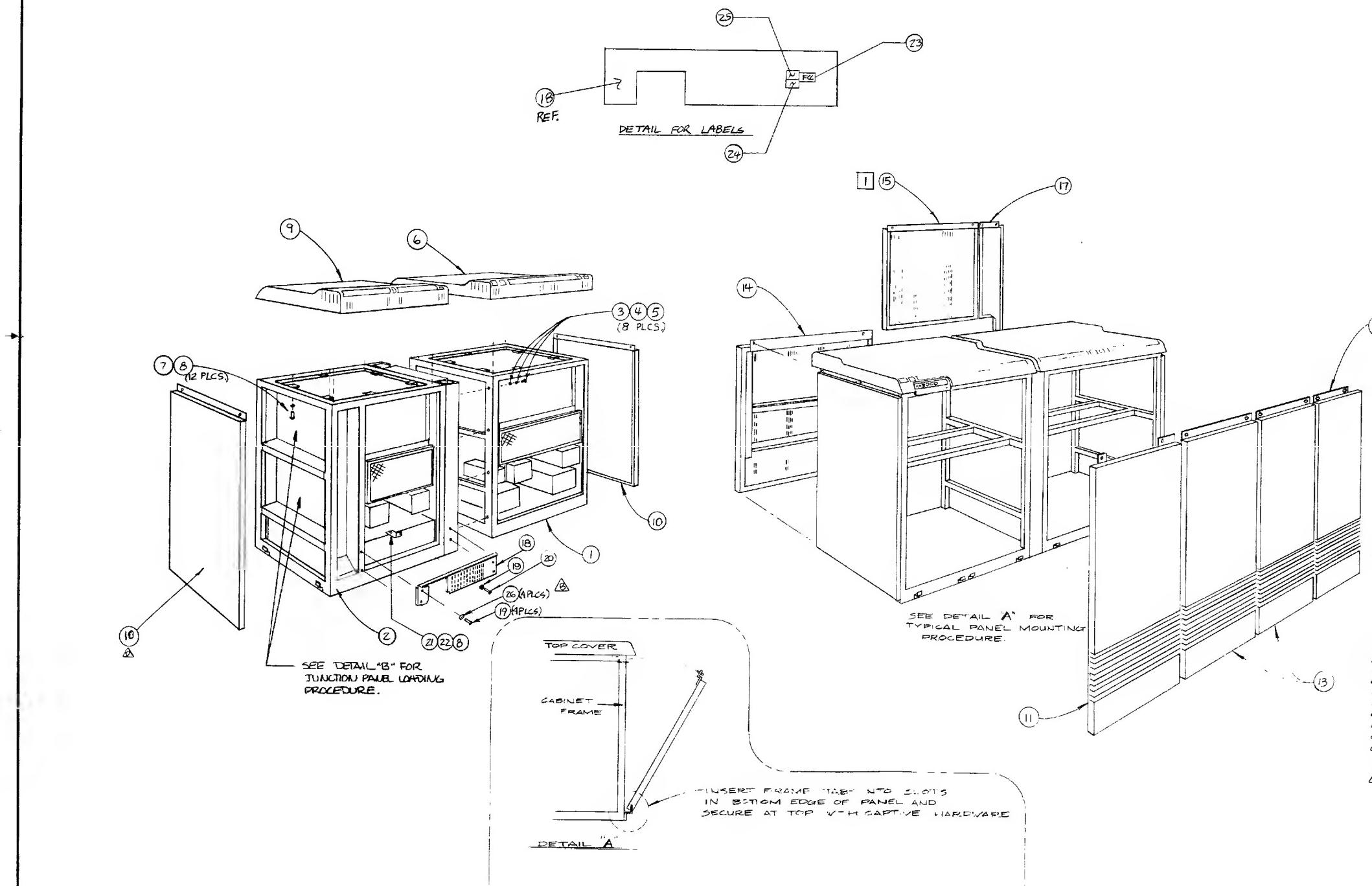
- 1 THIS CABLE (30140-60028) IS PART OF THE 30143A.
- 2 THESE CABLES (30140-60082) ARE PART OF THE 30143 A.

ITEM	QTY	MATERIAL DESCRIPTION	MATERIAL PART NO.	MATERIAL SPEC
22 + 3	1	VACUUM CAPACITOR DISCHARGE	30140-80201	
21	1	LABEL - CAUTION HOT	7120-7113	
20	1	WARNING LABEL	7120-7038	
17	1	COVER - CONNECTOR	30140-00103	
16	1	LABEL - PS - I/O	7121-4194	
15	1	LABEL - PS - CM	7121-4193	
14	4	WASHER - FLAT, #6	3050-0228	
13	4	SCR #6-32 x.375L PH W/L	2360-0117	
12	1	C-LAMP - CABLE	REF. C-5 1400-0611	
11	1	LABEL - 17	7121-2573	
10	1	LABEL - 16	7121-2572	
9	1	PLATE - SYSTEM IDENT	30140-40001	
8	2	LABEL - CAUTION	7121-2945	
7	2	FCA - 10B / MBI	30140-60062	
6	1	FCA - CIR / SSDP	30140-60052	
5	1	FCA - PSC / SSDP	30140-60051	
4	1	FCA - DCU / PSC	30140-60050	
3	1	CA - DCU / KEY SWITCH	30140-20100	
2	1	FCA - CB1 / CMIA / CSC	30140-60029	
1	2	FCA - CB1 / I/OB - MCS	30140-60028	

ASSY. SYSTEM		HEWLETT PACKARD
TITLE	PART NUMBER	
30140-B	D-30140-90032-10	

REF. DWGS: D-1 THRU. D-4
C-5, C-6, D-7
C-8, D-9, D-10

ENGINEERING RESPONSIBILITY																			SEPIA
ITEM	REVISED	APPROVED	DATE																
A	AS ISSUED	JEP	12-6-83																
B	ADDED ITEM 26 PER PCO 47-3803	MW/JEP	12-6-83																
C	ITEM 18 WAS 30140-00123; 47-3901	PCO47-3909	12-7-83																
D	ITEM 17 WAS 30140-00123; ITEM 17 ARE REF ONLY;	PCO47-3909	12-7-83																
E	ITEM 6 WAS 4040-1791; ITEM 9 WAS 4040-1792; ADDED NOTE 2; PCO 47-3943	CH/JEP	8/22/84																



ITEM	QTY	MATERIAL DESCRIPTION	REF. PART NO.	MATERIAL SPEC.
26	4	SCR #10-32 X .75 PH BLK	2680-0291	
25	1	LABEL - SERIAL TAG	7120-5524	
24	1	LABEL - WARRANTY	7121-1075	
23	1	LABEL - INFO. FCC	7121-1306	
22	1	SCR#8-32 X .312 PH W/L	2510-0043	
21	1	BRACKET AC COVER	36140-00122	
20	5	WASHER - WEAR NYLON	1390-0071	
19	5	SCR #10-32 X .5 PH BLK	2680-0290	
18	1	COVER - AC UNIT	30140-00168	
17	1	REF. PANEL - EXT. REAR CABLE EXIT	30140-00052	
15	1	REF. PANEL - EXT. LT. REAR	30140-00050	
14	1	REF. PANEL - EXT. RT. REAR	30140-00047	
13	1	REF. PANEL - EXT. CENTER FT	30140-00042	
12	1	REF. PANEL - EXT. RT. FRONT	30140-00036	
11	1	REF. PANEL - EXT. LT. FRONT	30140-00039	
10	1	REF. PANEL - EXT. SIDE (L)	30140-00068	
9	1	COVER - TOP I/O BAY	30140-40011	
8	13	WASHER .172 I.D. FLAT	2050-0139	
7	12	SCR. 8-32 X .44 PH W/L	2510-0301	
6	1	COVER - TOP CPU BAY	30140-40010	
5	8	WASHER - FLAT 1/4	3050-0275	
4	8	LR. WASHER - 1/4 HEL	2190-0032	
3	8	BOLTS 1/4-20 X 1.50 HEX	2940-0137	
2	1	ASSY - I/O BAY	REF. D-10	
1	1	ASSY - CPU BAY	REF. D-10	

FINAL ASSEMBLY		HP HEWLETT PACKARD
TITLE		
NEXT ASSEMBLY	30140-B	
FINISH	--	SCALE --
PART NUMBER	D-30140	-70032-11

REF DWGS:

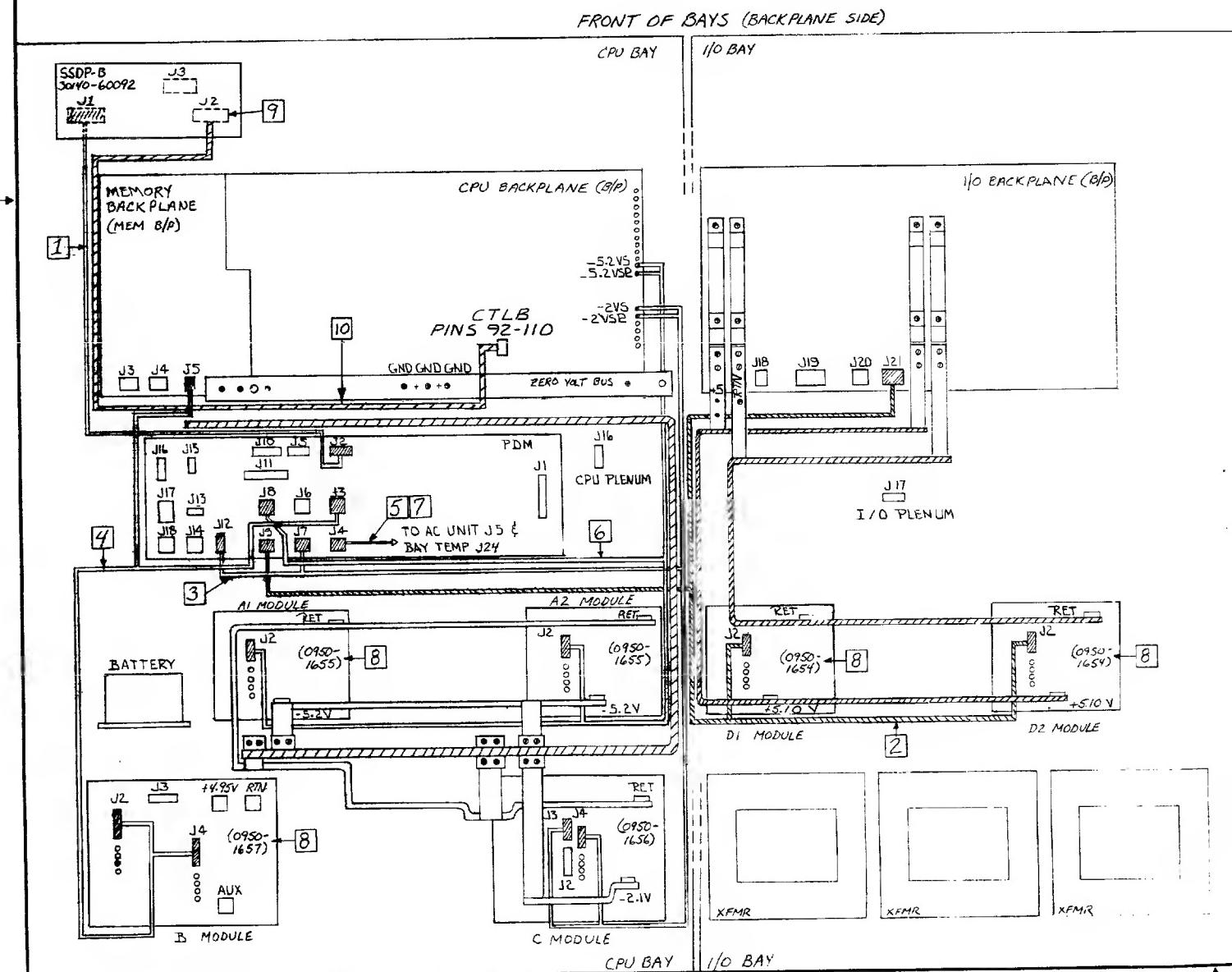
D-2 LOW VOLT DC DIST.
D-3 AC/HIGH VOLT DC DIST.

MODULE SET A INTERFACE					
A1	A2	PDM	CPU BP	SIGNAL	
P2-11	P2-1			-5.2 SENSE	
	P2-11			-5.2VS	"
	P2-3			-5.2V SENSE RTN	
	P2-18			-5.2VSP	"
P2-16	P2-6			-5.2 LO MARGIN	
	P2-16	P2-14		"	
P2-17	P2-7			-5.2 HI MARGIN	
	P2-17	P2-13		"	
P2-20	P2-10			-5.2 Curr. SHARE	
P2-12		P8-2		AI MOD ALARM	
P2-2		P8-6		AI ALARM COM	
P2-13		P8-1		AI ALARM SHUTDOWN	
P2-3		P8-9		AI ALARM SHUTDOWN COM	
P2-14		P8-11		AI OUTPUT CURR.	
		P2-12	P8-5	A2 MOD ALARM	
		P2-2	P8-15	A2 ALARM COM	
		P2-13	P8-4	A2 MOD SHUTDOWN	
		P2-3	P8-16	A2 ALARM SHUTDOWN COM	
		P2-14	P8-10	A2 OUTPUT CURR	
P2-15-19	P2-15-19			INTER LOCK	
	P2-15-19			INTER LOCK	

MODULE B		INTERFACE	
B	PDM	MEM B/P	SIGNAL
P2-4	P3-8		BATT. SOURCE
P2-5	P3-9		BATT. SOURCE
P2-7	P3-10		BATT. RETURN
P2-8	P3-11		BATT. RETURN
P2-20	P3-2		BATT. CONNECT
P2-10	P3-13		BATT. CONNECT RETURN
P2-12	P3-5		CHARGER MOD ALARM
P2-2	P3-4		CHARGER ALARM RTN
P2-13	P3-1		CHARGER SHUTDOWN
P2-3	P3-15		CHARGER SHUTDOWN RTN
P2-14	P3-6		CHARGE OUT CURRENT
P2-16	P3-19		BATT VOLT MONITOR
P2-17	P3-7		BATT CURRENT
P2-15	P3-19		CHARGER INTERLOCK
P4-1	P3-18		SB OUTPUT CURRENT
P4-12	P3-17		SB MODULE ALARM
P4-2	P3-12		SB MODULE ALARM RTN
P4-13	P3-10		SB MOD. SHUTDOWN
P4-3	P3-5		SB MOD SHUTDOWN RTN.
P4-15		P3-1	SB SENSE
P4-16		P3-2	SB SENSE RETURN
P4-			
9-5			SB INTERLOCK

MODULE C INTERFACE			
C	PDM	CPU B/P	SIGNAL
P3-13	P12-1		+12V SENSE
P3-14	P12-2		+12V SENSE COM
P3-23	P12-3		-12V SENSE COM
P3-15	P12-4		-12V SENSE
P3-19	P7-15		+12V HI MARGIN
P3-18	P7-17		+12V LO MARGIN
P3-21	P7-18		-12V HI MARGIN
P3-20	P7-19		-12V LO MARGIN
P3-10	P7-12		+12 OUTPUT CURR
P3-22	P7-11		-12 OUTPUT CURR
P3 12-24			INTERLOCK
P4-11		-2VS	-2V SENSE
P4-18		-2VSR	-2V SENSE RET.
P4-16	P7-14		-2V LO MARG
P4-17	P7-15		-2V HI MARGIN
P 4- 15-19			INTERLOCK
P4-12	P7-2		MODULE ALARM
P4-13	P7-1		MODULE SHUTDOWN
P4-2	P7-3		SHUTDOWN COM
P4-14	P7-8		-2V OUTPUT CURR

MODULE SET D INTERFACE				
D1	D2	PDM	I/O DP	SIGNAL
P2-11	P2-1			5V SENSE RTN
P2-1			P2I-2	5V SENSE RTN
P2-18	P2-8			5V SENSE
P2-8			P2I-1	5V SENSE
P2-6	P2-16			5V LO MARGIN
P2-16		P9-14		5V LO MARGIN
P2-7	P2-17			5V HI MARGIN
P2-17		P9-13		5V HI MARGIN
P2-20	P2-10			CURR SHARE
P2-12		P9-2		DI MOD ALARM
P2-2		P9-3		DI MOD ALARM COM
P2-13		P9-1		DI MOD SHUTDOWN
P2-3		P9-6		DI MOD SHUTDOWN COM
P2-14		P9-11		DI OUTPUT CURR.
P2				DI INTERLOCK
15-19				
P2				D2 INTERLOCK
15-19				
	P2-12	P9-5		D2 MOD ALARM
	P2-2	P9-15		D2 MOD ALARM COM
	P2-13	P9-4		D2 MOD SHUTDOWN
	P2-3	P9-16		D2 MOD SHUTDOWN COM
	P2-14	P9-10		D2 OUTPUT CURR.



AC UNIT INTERFACE			
AC UNIT	PDM	BAY TEMP	SIGNAL
PS-1	P4-12		RECTIFIER FAIL ALARM (R)
PS-3	P4-11		OVERTEMP ALARM (O)
PS-4	P4-10		FAN POWER ALARM
PS-2	P4-7		FAN ALARM RETURN
PS-5	P4-19		POWER FAIL ALARM (P)
PS-6	P4-18		PFA RETURN
PS-8	P4-9		BATTERY CONNECT
PS-9	P4-5		BATT. CONN. RETURN
PS-7	P4-17		CHASSIS GROUND
PY-1	P2Y-2		LOW TEMP. SENSE
PY-2	P2Y-1		HIGH TEMP. SENSE

NOTES

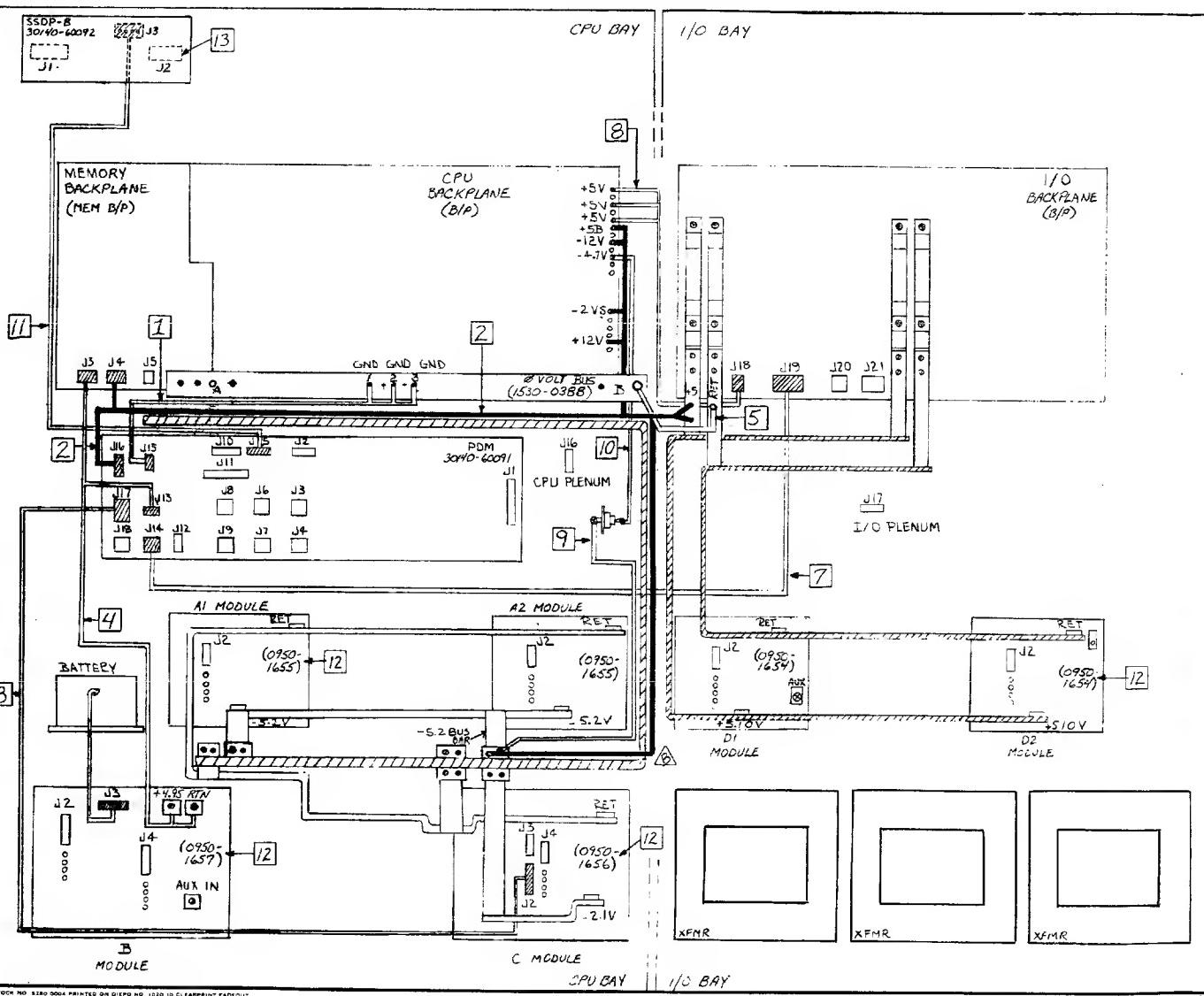
1. 30140-60051 CABLE.
 2. 30140-60116 CABLE.
 3. 30140-60123 CABLE.
 4. 30140-60125 CABLE.
 5. 30140-60127 CABLE.
 6. 30140-60128 CABLE.
 7. 'BAY TEMP' REFER TO J24 OF 30140-60055 CABLE.
 8. MODULE PART NUMBERS ARE STAMPED ON THE SIDE OF THE MODULE, NOT THE BACK AS SHOWN.
 9. THE SSDP-B CONNECTORS ARE LOCATED ON THE BACK OF THE SSDP-B ASSEMBLY.
 10. 30140-60052 FLAT CABLE
 11. THIS DRAWING IS INTENDED FOR POINT TO POINT SIGNAL IDENTIFICATION ONLY. REFER TO THE 30140-90032 DRAWINGS FOR CABLE ROUTING AND OTHER ASS'Y DWGS.

ITEM	QTY	MATERIAL DESCRIPTION	MAT'L PART NO	MAT'L DWG NO	MAT'L SPEC
		CONTROL & MONITOR SIGNAL DISTRIBUTION TITLE	 HEWLETT PACKARD		
		30140B	PART NUMBER -		
NEXT ASSEMBLY					
FINISH		SCALE	NON-L		
			D-30140-90034-1		

REF. DWGS.: D-1 CNTL. & MON. DISTR.
D-3 AC/DC HV DISTR.

ENGINEERING RESPONSIBILITY															D-30140-90034-2					
SEPIA																				
D	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	SYM	REVISIONS		APPROVED	DATE
16	17	18	19	20	21	22			33	34	38		42	43		A	AS ISSUED		SEA	3/28/03
17	43						90		93							B	MOVED 5-304C TO -54V BUS BAG ON 30140-2-5118 CABLE PER D-32-3709		MN	4/22/03
																C	MOVED 5-304C TO -54V Cable: PRC 47-3817		DW/15P	5/10/03

FRONT OF BAYS
(SIDE WITH BACKPLANE)



INTERFACE CONNECTION

NOTES:

1. 30140 - 60126 CABLE.
 2. 30140 - 60118 CABLE.
 3. 30140 60114 CABLE.
 4. 30140 60122 CABLE.
 5. 30140 60117 CABLE.
 7. 70147 60113 CABLE.
 8. ~ 14" 60114 CABLE.
 9. 30140 60120 CABLE.
 10. 50119" 60113 CABLE.
 11. 30140 60121 CABLE
 12. MODULE PART NUMBERS ARE STAMPED ON THE SIDE OF THE MODULES, NOT THE BACK AS SHOWN.
 13. THE SSDP-B CONNECTORS ARE LOCATED ON THE BACK OF THE SSDP-B ASSEMBLY.

14. THIS DRAWING IS INTENDED FOR POINT TO POINT SIGNAL IDENTIFICATION ONLY. REFER TO THE 3010D-900.32 DRAWINGS FOR CABLE ROUTING AND OTHER ASSEMBLY DETAILS.

AND OTHER ASSEMBLY DETAILS.					
ITEM	QTY	MATERIAL DESCRIPTION	MATL PART NO	MATL DWG NO	MATL SPEC
		LOW VOLTAGE DC DISTRIBUTION		 HEWLETT PACKARD	
		TITLE	301-2E	PART NUMBER	--
		NEXT ASSEMBLY		D-30140-90034-2	
		FINISH	SCALE		

REF DWGS: D-1 CONTROL & MONITOR SIGNAL DIST.
D-2 LOW VOLTAGE DC DIST.

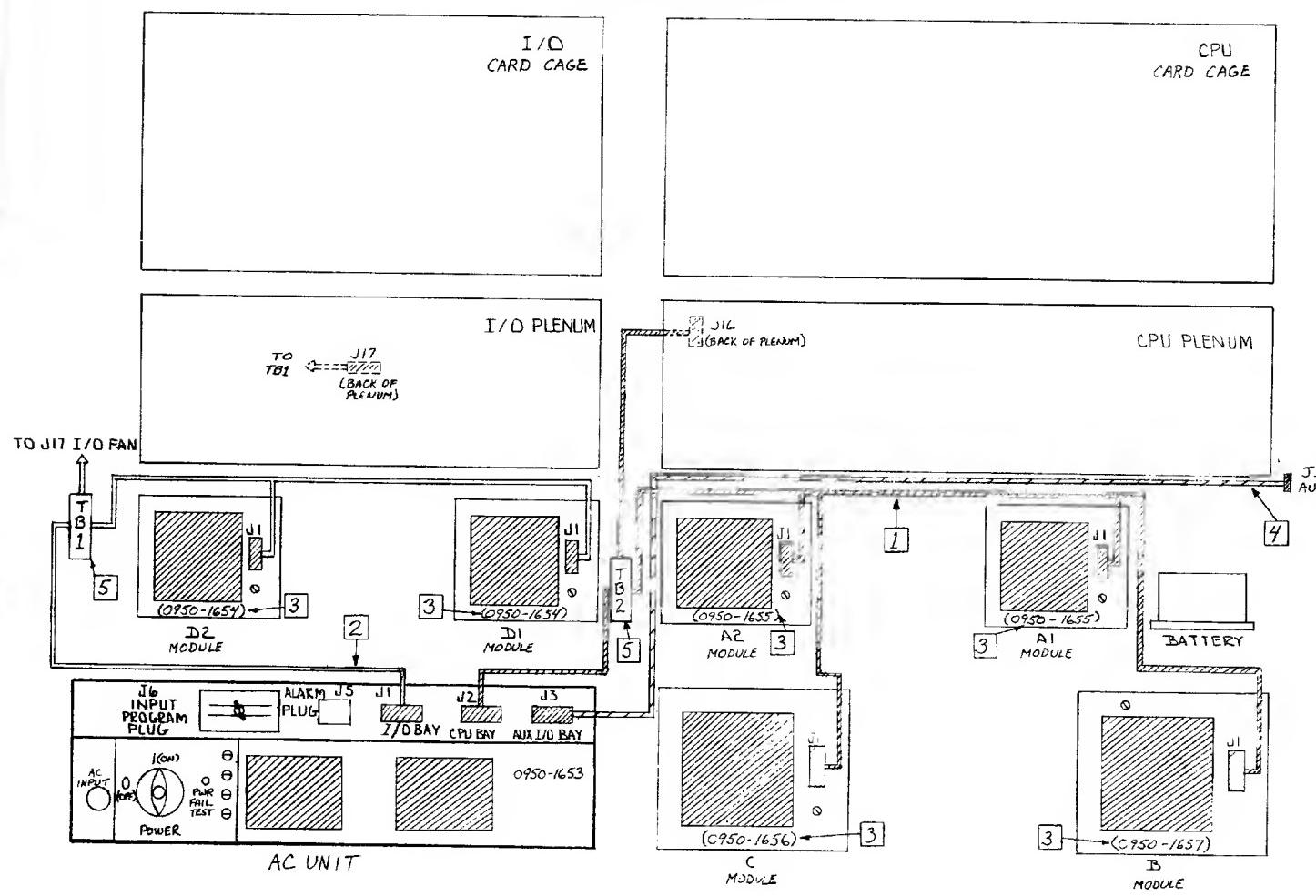
ENGINEERING RESPONSIBILITY																			SEPIA	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	SYM	REVISIONS	APPROVED	DATE	
18	17	18	19	20	21	22											A	AS ISSUED	D66	7/8/85
77																				

B-30140-90034-3

1. 30140-60111 CABLE.
2. 30140-60112 CABLE.
3. THIS MODULE PART NUMBER IS STAMPED ON THE SIDE OF THE MODULE, NOT THE FRONT AS SHOWN.
4. 30140-60129 CABLE. NOTE THAT THIS CABLE IS A POINT TO POINT EXTENSION TO A BULK HEAD ON THE CPU BAY AND IS NOT REFERENCED IN THE TABLES. PIN-OUT OF J3/P3 ON THE AC UNIT IS IDENTICAL TO P1 AND P2, WHICH ARE SHOWN IN THE TABLES.
5. TB1 AND TB2 ARE THE TERMINAL BLOCKS THAT ARE USED TO PROVIDE FAN-OUT ON THE 30140-60112 AND 30140-60111 CABLES, RESPECTIVELY.
6. THIS DRAWING INTENDED FOR POINT TO POINT SIGNAL IDENTIFICATION ONLY. REFER TO THE 30140-90032 SERIES OF DRAWINGS FOR CABLE ROUTING AND OTHER ASSEMBLY DETAILS.

BACK OF BAYS

(SIDE WITH CARD CAGE OPENINGS)



TB1 (I/O)	DI MODULE	D2 MODULE		AC UNIT	I/O PLENUM	SIGNAL
TB-1,2	P1-1	P1-1		P1-1		+300 VDC
TB 4,5	P1-2	P1-2		P1-2		300VDC RETURN
TB 10,11	P1-4	P1-4		P1-5	J17-3	230 VAC
TB 7,8	P1-5	P1-5		P1-5	J17-1	230VAC RETURN
				P1-4	J17-2	CHASSIS GND

TB2 (CPU)	A1 MODULE	A2 MODULE		C MODULE		B MODULE	AC UNIT	CPU PLENUM	SIGNAL
TB 1,2	P1-1	P1-1		P1-1		P1-1	P2-1		+300 VDC
TB 4,5	P1-2	P1-2		P1-2		P1-2	P2-2		300 VDC RETURN
TB 10,11	P1-4	P1-4		P1-4		P1-4	P2-5	J16-1	230VAC RETURN
TB 7,8	P1-5	P1-5		P1-5		P1-5	P2-3	J16-3	230VAC
							P2-4	J16-2	CHASSIS GND

ITEM	QTY	MATERIAL DESCRIPTION	MAVL PART NO	MAVL DNG NO	MAVL SPEC
AC/DC HIGH VOLTAGE DISTRIBUTION					
AC INPUT					
ITEM NO.	30140B	HP HEWLETT PACKARD			
FINISH					
SCALE	N/UNIT				
PART NUMBER	-				
	D-30140-90034-3				

READER COMMENT SHEET

Series 64/68 A/B System Block Diagrams and Assembly Drawings Manual

30140-90004 December 1984

We welcome your evaluation of this manual. It is one of several that serve as a reference source for HP 3000 Computer Systems. Your comments and suggestions help us to improve our publications and will be reviewed by appropriate technical personnel. HP may make any use of the submitted suggestions and comments without obligation.

Is this manual technically accurate? Yes No (If no, explain under Comments, below.)

Are the concepts and wording easy to understand? Yes No (If no, explain under Comments, below.)

Is the format of this manual convenient in size, arrangement and readability? Yes No (If no, explain or suggest improvements under Comments, below.)

Comments:

We appreciate your comments and suggestions. This form requires no postage stamp if mailed in the U.S. For locations outside the U.S., your local HP representative will ensure that your comments are forwarded.

Date: _____

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